

UNITED STATES OF AMERICA  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 10-K

☒ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934

For the Fiscal Year Ended: December 31, 2018  
OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d)  
OF THE SECURITIES EXCHANGE ACT OF 1934

For the Transition Period from \_\_\_\_\_ to \_\_\_\_\_.  
Commission File Number 1-13759

**REDWOOD TRUST, INC.**

(Exact Name of Registrant as Specified in Its Charter)

**Maryland**

(State or Other Jurisdiction of  
Incorporation or Organization)

**68-0329422**

(I.R.S. Employer  
Identification No.)

**One Belvedere Place, Suite 300  
Mill Valley, California**

(Address of Principal Executive Offices)

**94941**

(Zip Code)

**(415) 389-7373**

(Registrant's Telephone Number, Including Area Code)

**Securities Registered Pursuant to Section 12(b) of the Act:**

**Title of Each Class:**

**Common Stock, par value \$0.01 per share**

**Name of Exchange on Which Registered:**

**New York Stock Exchange**

**Securities registered pursuant to Section 12(g) of the Act: None**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☒ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☒

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐ Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

At June 30, 2018, the aggregate market value of the registrant's common stock held by non-affiliates of the registrant was \$1,224,714,997 based on the closing sale price as reported on the New York Stock Exchange.

The number of shares of the registrant's Common Stock outstanding on February 25, 2019 was 96,609,827.

**DOCUMENTS INCORPORATED BY REFERENCE**

Portions of the registrant's definitive Proxy Statement to be filed with the Securities and Exchange Commission under Regulation 14A within 120 days after the end of registrant's fiscal year covered by this Annual Report are incorporated by reference into Part III.

**REDWOOD TRUST, INC.**  
**2018 ANNUAL REPORT ON FORM 10-K**

**TABLE OF CONTENTS**

	<u><b>Page</b></u>
<b>PART I</b>	
Item 1. Business	1
Item 1A. Risk Factors	6
Item 1B. Unresolved Staff Comments	43
Item 2. Properties	44
Item 3. Legal Proceedings	45
Item 4. Mine Safety Disclosures (Not Applicable)	46
<b>PART II</b>	
Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters, and Issuer Purchases of Equity Securities	47
Item 6. Selected Financial Data	50
Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations	51
Item 7A. Quantitative and Qualitative Disclosures about Market Risk	101
Item 8. Financial Statements and Supplementary Data	107
Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure	107
Item 9A. Controls and Procedures	107
Item 9B. Other Information	108
<b>PART III</b>	
Item 10. Directors, Executive Officers and Corporate Governance	109
Item 11. Executive Compensation	109
Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters	109
Item 13. Certain Relationships and Related Transactions, and Director Independence	109
Item 14. Principal Accounting Fees and Services	109
<b>PART IV</b>	
Item 15. Exhibits, Financial Statement Schedules	110
Item 16. Form 10-K Summary	115
Consolidated Financial Statements	F- 1

## PART I

### ITEM 1. BUSINESS

#### Introduction

Redwood Trust, Inc., together with its subsidiaries, is a specialty finance company focused on making credit-sensitive investments in single-family residential and multifamily mortgages and related assets and engaging in mortgage banking activities. Our goal is to provide attractive returns to shareholders through a stable and growing stream of earnings and dividends, as well as through capital appreciation. We operate our business in two segments: Investment Portfolio and Mortgage Banking.

Our primary sources of income are net interest income from our investment portfolio and non-interest income from our mortgage banking activities. Net interest income consists of the interest income we earn on investments less the interest expense we incur on borrowed funds and other liabilities. Income from mortgage banking activities is generated through the acquisition of loans and their subsequent sale or securitization.

Redwood Trust, Inc. has elected to be taxed as a real estate investment trust ("REIT") under the Internal Revenue Code of 1986, as amended (the "Internal Revenue Code"), beginning with its taxable year ended December 31, 1994. We generally refer, collectively, to Redwood Trust, Inc. and those of its subsidiaries that are not subject to subsidiary-level corporate income tax as "the REIT" or "our REIT." We generally refer to subsidiaries of Redwood Trust, Inc. that are subject to subsidiary-level corporate income tax as "our operating subsidiaries" or "our taxable REIT subsidiaries" or "TRS." Our mortgage banking activities and investments in mortgage servicing rights ("MSRs") are generally carried out through our taxable REIT subsidiaries, while our portfolio of mortgage- and other real estate-related investments is primarily held at our REIT. We generally intend to retain profits generated and taxed at our taxable REIT subsidiaries, and to distribute as dividends at least 90% of the taxable income we generate at our REIT.

Redwood Trust, Inc. was incorporated in the State of Maryland on April 11, 1994, and commenced operations on August 19, 1994. Our executive offices are located at One Belvedere Place, Suite 300, Mill Valley, California 94941. References herein to "Redwood," the "company," "we," "us," and "our" include Redwood Trust, Inc. and its consolidated subsidiaries, unless the context otherwise requires.

Financial information concerning our business, both on a consolidated basis and with respect to each of our segments, is set forth in *Financial Statements and Supplementary Data* as well as in *Management's Discussion and Analysis of Financial Condition and Results of Operations* which are included in Part II, Items 8 and 7, respectively, of this Annual Report on Form 10-K.

#### Our Business Segments

Our Investment Portfolio segment includes a portfolio of investments in residential mortgage-backed securities ("RMBS") retained from our Sequoia securitizations, as well as RMBS issued by third parties and other credit risk-related investments. In addition, this segment includes a subsidiary of Redwood Trust that is a member of the Federal Home Loan Bank of Chicago ("FHLBC") and that utilizes long-term financing from the FHLBC to make long-term investments directly in residential mortgage loans. This segment also includes residential bridge loans, which are business purpose residential mortgage loans to investors rehabilitating and reselling or renting residential properties that we acquired from our affiliate, 5 Arches, LLC. The Investment Portfolio segment's main sources of revenue are interest income from investment portfolio securities and loans held-for-investment. Additionally, this segment may realize gains and losses upon the sale of securities. Funding expenses, hedging expenses, direct operating expenses, and tax provisions associated with these activities are also included in this segment.

Our Mortgage Banking segment primarily consists of operating a mortgage loan conduit that acquires residential loans from third-party originators for subsequent sale, securitization, or transfer to our investment portfolio. We typically acquire prime, jumbo mortgages and the related mortgage servicing rights on a flow basis from our network of loan sellers and distribute those loans through our Sequoia private-label securitization program or to institutions that acquire pools of whole loans. We also supplement our flow purchases with bulk loan acquisitions. In addition, beginning in the third quarter of 2018, this segment began to acquire single-family rental loans from our affiliate 5 Arches, LLC, for subsequent sale or securitization. Single-family rental loans are business purpose residential mortgage loans to investors in single-family (1-4 unit) rental properties. This segment also includes various derivative financial instruments that we utilize to manage certain risks associated with residential loans we acquire. Our Mortgage Banking segment's main source of revenue is income from mortgage banking activities, which includes valuation increases (or gains) on loans we acquire and subsequently sell or securitize, and from hedges used to manage risks associated with these activities. Additionally, this segment may generate interest income on loans held pending securitization or sale. Funding expenses, direct operating expenses, and tax expenses associated with these activities are also included in this segment.

### *Consolidated Securitization Entities*

We sponsor our Sequoia securitization program, which we use for the securitization of residential mortgage loans. We are required under Generally Accepted Accounting Principles in the United States ("GAAP") to consolidate the assets and liabilities of certain securitization entities we have sponsored for financial reporting purposes. However, each of these entities is independent of Redwood and of each other, and the assets and liabilities of these entities are not owned by us or legal obligations of ours, respectively, although we are exposed to certain financial risks associated with our role as the sponsor or depositor of these entities and, to the extent we hold securities issued by, or other investments in, these entities, we are exposed to the performance of these entities and the assets they hold. We refer to certain of these securitization entities issued prior to 2012 as "consolidated Legacy Sequoia entities," and the securitization entities formed in connection with the securitization of Redwood Choice expanded-prime loans as the "consolidated Sequoia Choice entities." Additionally, during 2018, we consolidated certain third-party Freddie Mac K-Series and SLST securitization entities that we determined were VIEs and for which we determined we were the primary beneficiary. Where applicable, in analyzing our results of operations, we distinguish results from current operations "at Redwood" and from consolidated entities.

### *Information Available on Our Website*

Our website can be found at [www.redwoodtrust.com](http://www.redwoodtrust.com). We make available, free of charge through the investor information section of our website, access to our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the U.S. Securities Exchange Act of 1934, as well as proxy statements, as soon as reasonably practicable after we electronically file such material with, or furnish it to, the U.S. Securities and Exchange Commission ("SEC"). We also make available, free of charge, access to the charters for our Audit Committee, Compensation Committee, and Governance and Nominating Committee, our Corporate Governance Standards, and our Code of Ethics governing our directors, officers, and employees. Within the time period required by the SEC and the New York Stock Exchange, we will post on our website any amendment to the Code of Ethics and any waiver applicable to any executive officer, director, or senior officer (as defined in the Code). In addition, our website includes information concerning purchases and sales of our equity securities by our executive officers and directors, as well as disclosure relating to certain non-GAAP financial measures (as defined in the SEC's Regulation G) that we may make public orally, telephonically, by webcast, by broadcast, or by similar means from time to time. The information on our website is not part of this Annual Report on Form 10-K.

Our Investor Relations Department can be contacted at One Belvedere Place, Suite 300, Mill Valley, CA 94941, Attn: Investor Relations, telephone (866) 269-4976 or email [investorrelations@redwoodtrust.com](mailto:investorrelations@redwoodtrust.com).

## Cautionary Statement

This Annual Report on Form 10-K and the documents incorporated by reference herein contain forward-looking statements within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements involve numerous risks and uncertainties. Our actual results may differ from our beliefs, expectations, estimates, and projections and, consequently, you should not rely on these forward-looking statements as predictions of future events. Forward-looking statements are not historical in nature and can be identified by words such as “anticipate,” “estimate,” “will,” “should,” “expect,” “believe,” “intend,” “seek,” “plan” and similar expressions or their negative forms, or by references to strategy, plans, or intentions. These forward-looking statements are subject to risks and uncertainties, including, among other things, those described in this Annual Report on Form 10-K under the caption “Risk Factors.” Other risks, uncertainties, and factors that could cause actual results to differ materially from those projected are described below and may be described from time to time in reports we file with the SEC, including reports on Forms 10-Q and 8-K. We undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise.

Statements regarding the following subjects, among others, are forward-looking by their nature: (i) statements we make regarding Redwood’s business strategy and strategic focus, including statements relating to our overall market position, strategy and long-term prospects (including trends driving the flow of capital in the housing finance market, our strategic initiatives designed to capitalize on those trends, our ability to attract capital to finance those initiatives, our approach to raising capital, our ability to pay higher sustainable dividends in the future, and the prospects for federal housing finance reform); (ii) statements related to our financial outlook and expectations for 2019, including with respect to our investment portfolio and mortgage banking activities; (iii) statements related to our mortgage banking activities, including our ability to leverage our platform to drive efficiencies and returns, and to continue to improve workflow efficiencies and capital turnover; (iv) statements related to our investment portfolio and investment opportunities, including that the breadth of our initiatives should enable us to continue sourcing investments that will drive net interest margins higher on a per share basis; (v) statements relating to acquiring residential mortgage loans in the future that we have identified for purchase or plan to purchase, including the amount of such loans that we identified for purchase during the fourth quarter of 2018 and at December 31, 2018, and expected fallout and the corresponding volume of residential mortgage loans expected to be available for purchase; (vi) statements relating to our estimate of our available capital (including that we estimate our available capital at December 31, 2018 was approximately \$85 million), and expectations relating to sourcing additional capital from continued optimization of our investment portfolio and from capital markets; (vii) statements we make regarding future dividends, including with respect to our regular quarterly dividends in 2019; and (viii) statements regarding our expectations and estimates relating to the characterization for income tax purposes of our dividend distributions, our expectations and estimates relating to tax accounting, tax liabilities and tax savings, and GAAP tax provisions, and our estimates of REIT taxable income and TRS taxable income.

Important factors, among others, that may affect our actual results include:

- the pace at which we redeploy our available capital into new investments;
- interest rate volatility, changes in credit spreads, and changes in liquidity in the market for real estate securities and loans;
  - "Credit spreads" is used generally to refer to the market value yield on a loan or security less the relevant risk-free benchmark interest rate;
- changes in the demand from investors for residential mortgages and investments, and our ability to distribute residential mortgages through our whole-loan distribution channel;
- our ability to finance our investments in securities and our acquisition of residential mortgages with short-term debt;
- changes in the values of assets we own;
- general economic trends, the performance of the housing, real estate, mortgage, credit, and broader financial markets, and their effects on the prices of earning assets and the credit status of borrowers;
- the impact of changes to U.S. federal income tax laws on the U.S. housing market, mortgage finance markets, and our business;
- changes to fiscal, tax, and other federal policies by Congress or President Trump's administration;
- developments related to the fixed income and mortgage finance markets and the Federal Reserve's statements regarding its future open market activity and monetary policy;
- federal and state legislative and regulatory developments, and the actions of governmental authorities, including the new U.S. presidential administration, and in particular those affecting the mortgage industry or our business (including, but not limited to, the Federal Housing Finance Agency's rules relating to FHLB membership requirements and the implications for our captive insurance subsidiary's membership in the FHLB);
- strategic business and capital deployment decisions we make;
- our exposure to credit risk and the timing of credit losses within our portfolio;
- the concentration of the credit risks we are exposed to, including due to the structure of assets we hold and the geographical concentration of real estate underlying assets we own;
- our exposure to adjustable-rate mortgage loans;
- the efficacy and expense of our efforts to manage or hedge credit risk, interest rate risk, and other financial and operational risks;
- changes in credit ratings on assets we own and changes in the rating agencies' credit rating methodologies;
- changes in interest rates;
- changes in mortgage prepayment rates;
- changes in liquidity in the market for real estate securities and loans;
- our ability to finance the acquisition of real estate-related assets with short-term debt;
- the ability of counterparties to satisfy their obligations to us;
- our involvement in securitization transactions, the profitability of those transactions, and the risks we are exposed to in engaging in securitization transactions;
- exposure to claims and litigation, including litigation arising from our involvement in securitization transactions;
- ongoing litigation against various trustees of RMBS transactions;
- whether we have sufficient liquid assets to meet short-term needs;
- our ability to successfully compete and retain or attract key personnel;
- our ability to adapt our business model and strategies to changing circumstances;
- changes in our investment, financing, and hedging strategies and new risks we may be exposed to if we expand our business activities;
- our exposure to a disruption or breach of the security of our technology infrastructure and systems;
- exposure to environmental liabilities;
- our failure to comply with applicable laws and regulations;
- our failure to maintain appropriate internal controls over financial reporting and disclosure controls and procedures;
- the impact on our reputation that could result from our actions or omissions or from those of others; changes in accounting principles and tax rules;
- our ability to maintain our status as a REIT for tax purposes;
- limitations imposed on our business due to our REIT status and our status as exempt from registration under the Investment Company Act of 1940;
- decisions about raising, managing, and distributing capital; and
- other factors not presently identified.

This Annual Report on Form 10-K may contain statistics and other data that in some cases have been obtained from or compiled from information made available by servicers and other third-party service providers.



**Certifications**

Our Chief Executive Officer and Chief Financial Officer have executed certifications dated February 28, 2019, as required by Sections 302 and 906 of the Sarbanes-Oxley Act of 2002, and we have included those certifications as exhibits to this Annual Report on Form 10-K. In addition, our Chief Executive Officer certified to the New York Stock Exchange (NYSE) on June 7, 2018 that he was unaware of any violations by Redwood Trust, Inc. of the NYSE's corporate governance listing standards in effect as of that date.

**Employees**

As of December 31, 2018, Redwood employed 149 people.



## Item 1A. Risk Factors

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### Risks Related to Recent or Potential Economic, Strategic, and Legislative/Regulatory Developments Affecting our Industry

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*General economic developments and trends and the performance of the housing, real estate, mortgage finance, and broader financial markets may adversely affect our business and the value of, and returns on, real estate-related and other assets we own or may acquire and could also negatively impact our business and financial results.*

Our level of business activity and the profitability of our business, as well as the values of, and the cash flows from, the assets we own, are affected by developments in the U.S. economy and the broader global economy. As a result, negative economic developments are likely to negatively impact our business and financial results. There are a number of factors that could contribute to negative economic developments, including, but not limited to, U.S. fiscal and monetary policy changes, including Federal Reserve policy shifts and changes in benchmark interest rates, changing U.S. consumer spending patterns, negative developments in the housing, multifamily, and real estate markets, rising unemployment, rising government debt levels, and changing expectations for inflation and deflation. For example, changes and uncertainty resulting from, and the impact of, President Trump's administration's approach to various international trade negotiations and the appropriation process for funding the operations of the U.S. federal government could negatively impact financial markets, as well as domestic and global economic growth. Also, the impending U.K. exit from the European Union is another factor that could adversely impact financial markets, as well as domestic and global economic growth. Personal income and unemployment levels affect borrowers' ability to repay residential mortgage loans underlying our investments in residential real estate-related assets (and renters' ability to meet rental obligations underlying our investments in multifamily securities and loans secured by non-owner occupied rental properties), and there is risk that economic growth and activity could be weaker than anticipated or negative.

The economic downturn that began in 2007 and the significant government interventions into the financial markets and fiscal stimulus spending that occurred in subsequent years have contributed to significantly increased U.S. budget deficits and overall debt levels, and the federal tax reform legislation signed into law in December 2017 is forecast to further increase budget deficits over the next decade. In addition, under President Trump's administration, further fiscal stimulus spending may occur relating to infrastructure, defense, or other areas that Congress and President Trump designate. These increases can put upward pressure on interest rates and could be among the factors that could lead to higher interest rates over the long-term future. Higher long-term interest rates could adversely affect our overall business, income, and our ability to pay dividends, as discussed further below under *"Interest rate fluctuations can have various negative effects on us and could lead to reduced earnings and increased volatility in our earnings."* Furthermore, our business and financial results may be harmed by our inability to accurately anticipate developments associated with changes in, or the outlook for, interest rates. In addition, near-term and long-term U.S. economic conditions could be impacted by changes in fiscal and tax policy.

Real estate values, and the ability to generate returns by owning or taking credit risk on loans secured by real estate, are important to our business. Following the financial crisis of 2007-2008, government intervention has been important in supporting real estate markets, the overall U.S. economy, and capital markets. Mortgage markets have also received substantial U.S. government support. In particular, the government's support of mortgage markets through its support of Fannie Mae and Freddie Mac expanded in late 2008, as the U.S. Treasury Department chose to backstop these government-sponsored enterprises. The governmental support for these entities has contributed to Fannie Mae's and Freddie Mac's continued dominance of residential mortgage finance and securitization activity, inhibiting the return of private sector mortgage securitization. This support may continue for some time and could have potentially negative consequences to us, since we have traditionally taken an active role in assuming credit risk in the private sector mortgage market, including through investments in Sequoia securitizations we sponsor. Both Congress and President Trump's administration have proposed various plans for reform of Fannie Mae and Freddie Mac (and the broader role of the government in the U.S. mortgage markets); however, it's unclear what type of reform would be implemented, if any, and what the impact on our business would be.

***Changes to the U.S. federal income tax laws could have an adverse impact on the U.S. housing market, mortgage finance markets, and our business.***

On December 22, 2017, President Trump signed into law the Tax Cuts and Jobs Act (the “Tax Act”), which contains significant changes to the Internal Revenue Code for taxable years beginning in 2018. Among other things, the Tax Act reduced for individuals the annual residential mortgage-interest deduction for purchase money mortgage debt incurred after December 15, 2017, in taxable years beginning after December 31, 2017, and beginning before January 1, 2026, from \$1,000,000 (or \$500,000 in the case of married taxpayers filing separately) to \$750,000 (or \$375,000 in the case of married taxpayers filing separately), as well as eliminated for individuals the deduction for interest with respect to home equity indebtedness, with certain exceptions for indebtedness from refinancing existing indebtedness. The Tax Act also limits the state and local tax deduction for individuals to a combined \$10,000 for income, sales, and property taxes (for both single and married tax filers) in taxable years beginning after December 31, 2017, and beginning before January 1, 2026. The reduction or limitation of these tax deductions could contribute to reduced home affordability and adversely affect home prices nationally and/or in local markets, particularly in states with high state and local taxes and property values. In addition, such changes could increase taxes payable by certain borrowers, thereby reducing their available cash and adversely impacting their ability to make payment on the mortgage loans, which in turn, could cause a rise in delinquencies. The impact of these changes has yet to be determined, but the limitations on these deductions could have an adverse impact on the U.S. residential housing market, the market value of residential mortgage loans and residential mortgage-backed securities, and the volume of future originations of residential mortgage loans, particularly jumbo mortgage loans, all of which could negatively impact our business or financial results.

***Congress and President Trump’s administration have made and may continue to make substantial changes to fiscal, tax, and other federal policies that may adversely affect our business.***

President Trump has called for and, in some cases, already signed into law substantial changes to U.S. fiscal and tax policies, including corporate and individual tax reform. In addition, President Trump has also called for, and, in some cases, already made, significant changes to U.S. trade, healthcare, immigration, foreign, and government regulatory policy. Some of the called-for changes would require Congressional approval, while others have already been, and may in the future be, carried out unilaterally by the executive branch of the U.S. government. To the extent Congress or President Trump implement changes to U.S. policy, those changes may impact, among other things, the U.S. economy, housing and housing finance markets, international trade, unemployment, immigration, the regulatory environment in the U.S. including banking regulations and the Dodd-Frank Act, international relations, inflation, unemployment, healthcare, and other areas. Although we cannot predict the impact, if any, of these changes to our business, they could adversely affect our business. Until we know what policy changes are made and how those changes impact our business and the business of our competitors over the long-term, we will not know if, overall, we will benefit from them or be negatively affected by them.

***Changing benchmark interest rates, and the Federal Reserve’s actions and statements regarding monetary policy, can affect the fixed income and mortgage finance markets in ways that could adversely affect our future business and financial results and the value of, and returns on, real estate-related investments and other assets we own or may acquire.***

Statements by the Federal Reserve regarding monetary policy and the actions it takes to set or adjust monetary policy may affect the expectations and outlooks of market participants in ways that disrupt our business and adversely affect our financial results and the value of, and returns on, our portfolio of real-estate related investments and the pipeline of residential mortgage loans we own or may acquire. For example, since December 2015, the Federal Reserve has raised the target federal funds rate nine times, bringing it from near zero to the current target level between 2.25% and 2.50%, and the federal funds rate could be increased further over the next several years. The increase in the federal funds rate has caused mortgage interest rates to rise from historically low levels, which has contributed to reducing the volume of new mortgages originated, in particular the volume of mortgage refinancings, in 2017 and 2018. As another example, from 2013 through 2018, statements made by the Chair and other members of the Board of Governors of the Federal Reserve System and by other Federal Reserve Bank officials regarding the U.S. economy, future economic growth, the Federal Reserve’s future open market activity and monetary policy had a significant impact on, among other things, benchmark interest rates, the value of residential mortgage loans, and, more generally, the fixed income markets. These statements and the actions of the Federal Reserve, and other factors also significantly impacted many market participants’ expectations and outlooks regarding future levels of benchmark interest rates and the expected yields these market participants would require to invest in fixed income instruments, including most residential mortgages and residential mortgage-backed securities (RMBS).

To the extent benchmark interest rates continue to rise, one of the immediate potential impacts on our business would be a reduction in the overall value of the pool of residential mortgage loans that we own and the overall value of the pipeline of residential mortgage loans that we have identified for purchase. Rising benchmark interest rates also generally have a negative impact on the overall cost of short- and long-term borrowings we use to finance our acquisitions and holdings of residential mortgage loans, including as a result of the requirement to post additional margin (or collateral) to lenders to offset any associated decline in value of the mortgage loans we finance with short- and long-term borrowings. The short- and long-term borrowings we use to finance our acquisitions and holdings of residential mortgage loans are uncommitted and have a limited term, which could result in these types of borrowings not being available in the future to fund our acquisitions and holdings and could result in our being required to sell holdings of residential mortgage loans and incur losses. Similar impacts would also be expected with respect to the short-term borrowings we use to finance our acquisitions and holdings of RMBS. In addition, any inability to fund acquisitions of mortgage loans could damage our reputation as a reliable counterparty in the mortgage finance markets.

To the extent benchmark interest rates continue to rise, it would also likely impact the volume of residential mortgage loans available for purchase in the marketplace and our ability to compete to acquire residential mortgage loans as part of our residential mortgage banking activities. These impacts could result from, among other things, a lower overall volume of mortgage refinancing activity by mortgage borrowers and an increased level of competition from large commercial banks that may operate with a lower cost of capital than we do, including as a result of Federal Reserve monetary policies that impact banks more favorably than us and other non-bank institutions. These and other impacts of developments of the type described above have had, and may continue to have, a negative impact on our business and results of operations and we cannot accurately predict the full extent of these impacts or for how long they may persist.

***Federal and state legislative and regulatory developments and the actions of governmental authorities and entities may adversely affect our business and the value of, and the returns on, mortgages, mortgage-related securities, and other assets we own or may acquire in the future.***

As noted above, our business is affected by conditions in the housing, multifamily, and real estate markets and the broader financial markets, as well as by the financial condition and resources of other participants in these markets. These markets and many of the participants in these markets are subject to, or regulated under, various federal and state laws and regulations. In some cases, the government or government-sponsored entities, such as Fannie Mae and Freddie Mac, directly participate in these markets. In particular, because issues relating to residential real estate and housing finance can be areas of political focus, federal, state and local governments may be more likely to take actions that affect residential real estate, the markets for financing residential real estate, and the participants in residential real estate-related industries than they would with respect to other industries. As a result of the government's statutory and regulatory oversight of the markets we participate in and the government's direct and indirect participation in these markets, federal and state governmental actions, policies, and directives can have an adverse effect on these markets and on our business and the value of, and the returns on, mortgages, mortgage-related securities, and other assets we own or may acquire in the future, which effects may be material.

Furthermore, the financial crisis of 2007-2008 and subsequent financial turmoil prompted the federal government to put into place new statutory and regulatory frameworks and policies for reforming the U.S. financial system. These financial reforms are aimed at, among other things, promoting robust supervision and regulation of financial firms, establishing comprehensive supervision of financial markets, protecting consumers and investors from financial abuse, providing the U.S. government with additional tools to manage financial crises, and raising international regulatory standards and improving international cooperation, but their scope could be expanded beyond what has been currently enacted, implemented, and proposed. Certain financial reforms focused specifically on the issuance of asset-backed securities through securitization transactions include significantly enhanced disclosure requirements, risk retention requirements, and rules restricting a broad range of conflicts of interests in regard to these transactions. Implementation of financial reforms, whether through law, regulations, or policy, including changes to the manner in which financial institutions, financial products, and financial markets operate and are regulated and any related changes in the accounting standards that govern them, could adversely affect our business and financial results by subjecting us to regulatory oversight, making it more expensive to conduct our business, reducing or eliminating any competitive advantage we may have, or limiting our ability to expand, or could have other adverse effects on us.

Alternatively, under President Trump's administration the scope of financial reforms and the regulatory framework governing the financial system has been, and could continue to be, reduced or refocused. Trump administration policies, federal legislation, or executive or regulatory actions aimed at weakening or dismantling the Dodd-Frank Act or its regulatory apparatus, including by reducing capital requirements on banking institutions or by weakening or redirecting the Consumer Financial Protection Bureau ("CFPB"), its leadership, or its enforcement capabilities or priorities, could result in increased competition from commercial banks and other large financial institutions that may have advantages due to their size and cost of capital.

During and since 2008, the federal government has also made available programs designed to provide homeowners with assistance in avoiding residential mortgage loan foreclosures, including through loan modification and refinancing programs. In addition, certain mortgage lenders and servicers have voluntarily, or as part of settlements with law enforcement authorities, established loan modification programs relating to the mortgages they hold or service and adopted new servicing standards intended to protect homeowners. Changes to servicing standards, whether resulting from a settlement or a change in regulation, are likely to have the effect of lengthening the time it takes for a servicer to foreclose on the property underlying a delinquent mortgage loan. Loan modification programs and changes to servicing standards and regulations, as well as future law enforcement and legislative or regulatory actions, may adversely affect the value of, and the returns on, the mortgage loans and mortgage securities we currently own or may acquire in the future.

Ultimately, we cannot assure you of the impact that governmental actions may have on our business or the financial markets and, in fact, they may adversely affect us, possibly materially. We cannot predict whether or when such actions may occur or what unintended or unanticipated impacts, if any, such actions could have on our business and financial results. Even after governmental actions have been taken and we believe we understand the impacts of those actions, we may not be able to effectively respond to them so as to avoid a negative impact on our business or financial results.

***Federal regulations may limit, eliminate, or reduce the attractiveness of our subsidiary's ability to use borrowings from the Federal Home Loan Bank of Chicago to finance the mortgage loans and securities it holds and acquires, which could negatively impact our business and operating results.***

In June 2014, we announced that our wholly-owned captive insurance company subsidiary, RWT Financial, LLC, was approved as a member of the Federal Home Loan Bank of Chicago ("FHLBC"). This membership has provided RWT Financial with access to attractive long-term collateralized financing for mortgage loans and securities it holds and acquires. RWT Financial currently has approximately \$2.00 billion of long-term borrowings from the FHLBC to finance its portfolio of jumbo residential mortgage loans. In January 2016, federal regulations were adopted by the Federal Housing Finance Agency ("FHFA"), which is the regulator of the Federal Home Loan Bank System, relating to captive insurance company membership in the Federal Home Loan Bank System. Under these regulations, RWT Financial is eligible to remain as a member of the FHLBC until the expiration of a five-year transition period and its existing \$2.00 billion of FHLB debt is permitted to remain outstanding until stated maturity (even though the scheduled maturity extends beyond the five-year transition period). As residential loans pledged as collateral for this debt pay down, RWT Financial is permitted to pledge additional loans or other eligible assets to collateralize this debt; however, we do not expect RWT Financial to be able to increase its FHLB debt above the existing \$2.00 billion outstanding.

The final regulations published by the FHFA could negatively impact us in a number of different ways, including, without limitation, by: limiting our ability to acquire (or the attractiveness of acquiring) residential mortgage loans to hold as long-term investments; limiting our ability to increase net interest income earned by RWT Financial; and, following the five-year transition period and the scheduled maturity of our currently outstanding advances, requiring us to arrange for alternative (and, likely, less attractive) financing sources for residential mortgage loans held as long-term investments or, if such alternative financing sources are not then available, requiring us to liquidate our portfolio of residential loans held as long-term investments, any of which could negatively impact our business and operating results. In addition, our increased reliance on long-term financing from the FHLBC exposes us to risks of the type described below in Part II, Item 7 of this Annual Report on Form 10-K under the heading, "*Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities.*"

*Decisions we make about our business strategy and investments, as well as decisions about raising capital or returning capital to shareholders (through dividends or common stock repurchases), could fail to improve our business and results of operations.*

Since December 2017, we have announced several new initiatives to expand our mortgage banking activities and grow our investment portfolio, including by exploring opportunities to provide expanded financing options to non-bank mortgage loan originators, expanding our mortgage loan purchase activity to include, for example, loans secured by non-owner occupied rental properties generally made up of one to four units and residential bridge loans (which we collectively refer to as “business purpose real estate loans”), and increasing the size and optimizing the target returns of our investment portfolio. As one example, we recently announced that we have exercised our purchase option to complete the acquisition of 5 Arches, LLC (“5 Arches”), an originator of business-purpose real estate loans, following our minority equity investment in 5 Arches in May 2018. As another example, we recently announced our participation in a multifamily whole loan investment fund created to acquire \$1 billion of floating rate, light-renovation multifamily loans from Freddie Mac. Other new investment initiatives include investing in residential securities collateralized by re-performing and non-performing mortgage loans, multifamily securities, and investments in excess mortgage servicing rights (“MSRs”) and servicer advance investments related to pools of residential and small-balance multifamily mortgage loans.

These new initiatives are intended to grow our mortgage banking business and investment portfolio, as well as to allocate capital to profitable business and investment opportunities. These initiatives are premised on our outlook for economic and market conditions, secular trends in consumer demand for housing, as well as competitive considerations. Over the long-term, the assumptions underlying these trends and changes, or assumptions regarding the risk profile of these initiatives and investments, could turn out to be incorrect or economic and market conditions could develop in a manner that is not consistent with our assumptions. As a result, these new initiatives could fail to improve the long-term profitability of Redwood, could fail to result in capital being available for or deployed into more profitable businesses and investments, could result in dilutive issuances of equity or debt securities convertible into equity to fund our business and investment activities, or could otherwise damage our business, our reputation, our ability to access financing, and our ability to raise capital, or could have other unforeseen consequences, any or all of which could result in a material adverse effect on our business and results of operations in the future. Decisions we make in the future about our business strategy and investments, as well as decisions about raising capital or returning capital to shareholders (through dividends or common stock repurchases), could also fail to improve our business and results of operations.

In February 2016 and again in February 2018, our Board of Directors approved authorizations for the purchase of Redwood common stock and also authorized the repurchase of other securities issued by Redwood, including convertible and exchangeable debt securities. Subsequently, since 2016, we have repurchased approximately \$50 million of our common stock at an average price per share of \$13.87 and approximately \$41 million of our outstanding debt securities. At December 31, 2018, approximately \$100 million of this current authorization remained available for the repurchase of shares of our common stock. If we repurchase shares of Redwood common stock or other securities issued by Redwood, it is because at the time we believe the shares or securities are trading at attractive levels relative to other uses of capital or investment opportunities then available to us; however, it is possible that other uses of this capital could have been more accretive to our earnings or book value or that subsequent capital needs arise that were not contemplated at the time we made these decisions. Our past and future decisions relating to the repurchases of Redwood common stock or other securities issued by Redwood could fail to improve our results of operations or could negatively impact our ability to execute our business plans, meet financial obligations, access financing, or raise additional capital, any or all of which could result in a material adverse effect on our business and results of operations in the future.

In addition, in June 2018, we issued \$200 million of convertible senior notes (convertible into common stock), and between June 2018 and February 2019, we issued approximately 20 million shares of common stock for aggregate net proceeds of approximately \$325 million through underwritten public offerings, from time to time in at-the-market (“ATM”) offerings, and under our direct stock purchase and dividend reinvestment plan. We may issue additional shares of common stock (or debt securities convertible into common stock) in subsequent public offerings or private placements. In addition, we may issue additional shares of common stock pursuant to our ATM offering program, upon conversion of our convertible debt or upon exchange of our exchangeable debt, to participants in our direct stock purchase and dividend reinvestment plan, to our directors, officers and employees under our employee stock purchase plan and our incentive plan, including upon the exercise of, or in respect of, distributions on equity awards previously granted thereunder, and in connection with our acquisition of 5 Arches. It may not be possible for existing stockholders to participate in future share issuances, which may dilute existing stockholders’ interests in us. To the extent we raise capital to fund our operations and investment activities, our approach to raising capital is based on what we believe to be in the best interest of our shareholders. However, it is possible that our use of the proceeds of such capital raising transactions may not yield a significant return or any return at all for our stockholders.

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## Risks Related to our Investments and Investing Activity

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*The nature of the assets we hold and the investments we make expose us to credit risk that could negatively impact the value of those assets and investments, our earnings, dividends, cash flows, and access to liquidity, or otherwise negatively affect our business.*

### *Overview of credit risk*

We assume credit risk primarily through the ownership of securities backed by residential, multifamily, and other real estate loans and through direct investments in residential real estate loans and other real estate loans. We may also assume similar credit risks through other types of transactions with counterparties who are seeking to reduce their exposure to credit risk or who are seeking financing for their own holdings of residential real estate loans or servicing rights relating to residential real estate loans. Credit losses on real estate loans can occur for many reasons, including: fraud; poor underwriting; poor servicing practices; weak economic conditions; increases in payments required to be made by borrowers; declines in the value of real estate; declining rents on single- and multifamily residential rental properties; natural disasters, the effects of climate change (including flooding, drought, wildfires, and severe weather) and other natural events; uninsured property loss; over-leveraging of the borrower; costs of remediation of environmental conditions, such as indoor mold; changes in zoning or building codes and the related costs of compliance; acts of war or terrorism; changes in legal protections for lenders and other changes in law or regulation; and personal events affecting borrowers, such as reduction in income, job loss, divorce, or health problems. In addition, the amount and timing of credit losses could be affected by loan modifications, delays in the liquidation process, documentation errors, and other action by servicers. Weakness in the U.S. economy or the housing market could cause our credit losses to increase beyond levels that we currently anticipate.

In addition, rising interest rates may increase the credit risks associated with certain residential real estate loans. For example, the interest rate is adjustable for many of the loans held at securitization entities we have sponsored and for a portion of the loans underlying residential securities we have acquired from securitizations sponsored by others. In addition, a portion of the loans we have pledged to secure short-term warehouse borrowings and a portion of the loans underlying multifamily securities we have acquired may have adjustable interest rates. Accordingly, when short-term interest rates rise, required monthly payments from homeowners will rise under the terms of these adjustable-rate mortgages, and this may increase borrowers' delinquencies and defaults.

Credit losses on business purpose real estate loans and real estate loans collateralizing multifamily securities can occur for many of the reasons noted above for residential real estate loans. Moreover, these types of real estate loans may not be fully amortizing and, therefore, the borrower's ability to repay the principal when due may depend upon the ability of the borrower to refinance or sell the property at maturity. Business purpose real estate loans and real estate loans collateralizing multifamily securities are particularly sensitive to conditions in the rental housing market and to demand for rental residential properties.

*We may have heightened credit losses associated with certain securities and investments we own.*

Within a securitization of residential, multifamily, or business purpose real estate loans, various securities are created, each of which has varying degrees of credit risk. We may own the securities in which there is more (or the most) concentrated credit risk associated with the underlying real estate loans.

In general, losses on an asset securing a residential, multifamily, or business purpose real estate loan included in a securitization will be borne first by the owner of the property (i.e., the owner will first lose any equity invested in the property) and, thereafter, by the first-loss security holder, and then by holders of more senior securities. In the event the losses incurred upon default on the loan exceed any classes of securities junior to those in which we invest (if any), we may not be able to recover all of our investment in the securities we hold. In addition, if the underlying properties have been overvalued by the originating appraiser or if the values subsequently decline and, as a result, less collateral is available to satisfy interest and principal payments due on the related security, then the first-loss securities may suffer a total loss of principal, followed by losses on the second-loss and then third-loss securities (or other residential and commercial securities that we own). In addition, with respect to residential securities we own, we may be subject to risks associated with the determination by a loan servicer to discontinue servicing advances (advances of mortgage interest payments not made by a delinquent borrower) if they deem continued advances to be unrecoverable, which could reduce the value of these securities or impair our ability to project and realize future cash flows from these securities.

For loans or other investments we own directly (not through a securitization structure), we will most likely be in a position to incur credit losses - should they occur - only after losses are borne by the owner of the property (e.g., by a reduction in the owner's equity stake in the property). Similar to our exposure to credit losses on loans we own directly, we have committed to assume credit losses - but only up to a specified amount - on certain conforming residential mortgage loans that we acquired and then sold to Fannie Mae and Freddie Mac pursuant to risk-sharing arrangements we entered into with those entities, to the extent any such losses exceed the owner's equity investment in the property. We may take actions available to us in an attempt to protect our position and mitigate the amount of credit losses, but these actions may not prove to be successful and could result in our increasing the amount of credit losses we ultimately incur on a loan.

*The nature of the assets underlying some of the securities and investments we hold could increase the credit risk of those securities.*

For certain types of loans underlying securities we may own or acquire, the loan rate or borrower payment rate may increase over time, increasing the potential for default. For example, securities may be backed by residential real estate loans that have negative amortization features. The rate at which interest accrues on these loans may change more frequently or to a greater extent than payment adjustments on an adjustable-rate loan, and adjustments of monthly payments may be subject to limitations or may be limited by the borrower's option to pay less than the full accrual rate. As a result, the amount of interest accruing on the remaining principal balance of the loans at the applicable adjustable mortgage loan rate may exceed the amount of the monthly payment. To the extent we are exposed to it, this is particularly a risk in a rising interest rate environment. Negative amortization occurs when the resulting excess (of interest owed over interest paid) is added to the unpaid principal balance of the related adjustable mortgage loan. For certain loans that have a negative amortization feature, the required monthly payment is increased after a specified number of months or after a maximum amount of negative amortization has occurred in order to amortize fully the loan by the end of its original term. Other negative amortizing loans limit the amount by which the monthly payment can be increased, which results in a larger final payment at maturity. As a result, negatively amortizing loans have performance characteristics similar to those of balloon loans. Negative amortization may result in increases in delinquencies, loan loss severity, and loan defaults, which may, in turn, result in payment delays and credit losses on our investments. Other types of loans and investments to which we are exposed, such as hybrid loans and adjustable-rate loans, may also have greater credit risk than more traditional amortizing fixed-rate mortgage loans.

Many of the real estate loans collateralizing multifamily securities and business purpose real estate loans we own or may acquire are only partially amortizing or do not provide for any principal amortization prior to a balloon principal payment at maturity. Commercial loans that only partially amortize or that have a balloon principal payment at maturity may have a higher risk of default at maturity than fully amortizing loans. In addition, since most of the principal of these loans is repaid at maturity, the amount of loss upon default is generally greater than on other loans that provide for more principal amortization.

*We have concentrated credit risk in certain geographical regions and may be disproportionately affected by an economic or housing downturn, natural disaster, terrorist event, climate change, or any other adverse event specific to those regions.*

A decline in the economy or difficulties in certain real estate markets, such as a high level of foreclosures in a particular area, are likely to cause a decline in the value of residential and multifamily properties. This, in turn, will increase the risk of delinquency, default, and foreclosure on real estate underlying securities and loans we hold with properties in those regions, and it will increase the risk of loss on other investments we own. This may then adversely affect our credit loss experience and other aspects of our business, including our ability to securitize (or otherwise sell) real estate loans and securities.

The occurrence of a natural disaster (such as an earthquake, tornado, hurricane, flood, landslide, or wildfire), or the effects of climate change (including flooding, drought, and severe weather), may cause decreases in the value of real estate (including sudden or abrupt changes) and would likely reduce the value of the properties collateralizing real estate loans we own or those underlying the securities or other investments we own. For example, in 2017 and 2018, hurricanes caused widespread flooding in Florida and Texas and wildfires and mudslides in northern and southern California destroyed or damaged thousands of homes. Since certain natural disasters may not typically be covered by the standard hazard insurance policies maintained by borrowers, the borrowers may have to pay for repairs due to the disasters. Borrowers may not repair their property or may stop paying their mortgage loans under those circumstances, especially if the property is damaged. This would likely cause foreclosures to increase and lead to higher credit losses on our loans or investments or on the pool of mortgage loans underlying securities we own.

A significant number of residential real estate loans that we own, or that underlie the securities we own, are secured by properties in California and, thus, we have a higher concentration of credit risk within California than in other states. Additional states where we have concentrations of residential loan credit risk are set forth in *Note 6* to the Financial Statements within this Annual Report on Form 10-K. Balances on real estate loans collateralizing multifamily securities and business purpose real estate loans we own and may acquire are larger than residential loans and in the past we have had, and may have in the future, a geographically concentrated portfolio of such loans and securities. Real estate loans collateralizing multifamily securities and business purpose real estate loans we currently own are generally concentrated in California, Texas, Florida, Georgia, and Arizona.

*The timing of credit losses can harm our economic returns.*

The timing of credit losses can be a material factor in our economic returns from real estate loans, investments, and securities. If unanticipated losses occur within the first few years after a loan is originated, an investment is made, or a securitization is completed, those losses could have a greater negative impact on our investment returns than unanticipated losses on more seasoned loans, investments, or securities. In addition, higher levels of delinquencies and cumulative credit losses within a securitized loan pool can delay our receipt of principal and interest that is due to us under the terms of the securities backed by that pool. This would also lower our economic returns. The timing of credit losses could be affected by the creditworthiness of the borrower, the borrower's willingness and ability to continue to make payments, and new legislation, legal actions, or programs that allow for the modification of loans or ability for borrowers to get relief through bankruptcy or other avenues.

*Our efforts to manage credit risks may fail.*

We attempt to manage risks of credit losses by continually evaluating our investments for impairment indicators and establishing reserves under GAAP for credit and other risks based upon our assessment of these risks. We cannot establish credit reserves for tax accounting purposes. The amount of reserves that we establish may prove to be insufficient, which would negatively impact our financial results and would result in decreased earnings. In addition, cash and other capital we hold to help us manage credit and other risks and liquidity issues may prove to be insufficient. If these increased credit losses are greater than we anticipated and we need to increase our credit reserves, our GAAP earnings might be reduced. Increased credit losses may also adversely affect our cash flows, ability to invest, dividend distribution requirements and payments, asset fair values, access to short-term borrowings, and ability to securitize or finance assets.

Despite our efforts to manage credit risk, there are many aspects of credit risk that we cannot control. Our quality control and loss mitigation policies and procedures may not be successful in limiting future delinquencies, defaults, and losses, or they may not be cost effective. Our underwriting reviews may not be effective. The securitizations in which we have invested may not receive funds that we believe are due from mortgage insurance companies and other counterparties. Loan servicing companies may not cooperate with our loss mitigation efforts or those efforts may be ineffective. Service providers to securitizations, such as trustees, loan servicers, bond insurance providers, and custodians, may not perform in a manner that promotes our interests. Delay of foreclosures could delay resolution and increase ultimate loss severities, as a result.

The value of the homes or properties collateralizing or underlying real estate loans or investments may decline, and rents on single- and multifamily rental properties may decline. The frequency of default and the loss severity on loans upon default may be greater than we anticipate. Interest-only loans, negative amortization loans, adjustable-rate loans, larger balance loans, reduced documentation loans, subprime loans, Alt-A quality loans, second lien loans, loans in certain locations, residential mortgage loans that are not "qualified mortgages" under regulations promulgated by the CFPB, re-performing and non-performing loans, and loans or investments that are partially collateralized by non-real estate assets may have increased risks and severity of loss. If property securing or underlying loans becomes real estate owned as a result of foreclosure, we bear the risk of not being able to sell the property and recovering our investment and of being exposed to the risks attendant to the ownership of real property.

Changes in consumer behavior, bankruptcy laws, tax laws, regulation of the mortgage industry, and other laws may exacerbate loan or investment losses. Changes in rules that would cause loans owned by a securitization entity to be modified may not be beneficial to our interests if the modifications reduce the interest we earn and increase the eventual severity of a loss. In some states and circumstances, the securitizations in which we invest have recourse as owner of the loan against the borrower's other assets and income in the event of loan default. However, in most cases, the value of the underlying property will be the sole effective source of funds for any recoveries. Other changes or actions by judges or legislators regarding mortgage loans and contracts, including the voiding of certain portions of these agreements, may reduce our earnings, impair our ability to mitigate losses, or increase the probability and severity of losses. Any expansion of our loss mitigation efforts could increase our operating costs and the expanded loss mitigation efforts may not reduce our future credit losses.



*Credit ratings assigned to debt securities by the credit rating agencies may not accurately reflect the risks associated with those securities. Furthermore, downgrades in credit ratings could increase our credit risk, reduce our cash flows, or otherwise adversely affect our business and operations.*

We generally do not consider credit ratings in assessing our estimates of future cash flows and desirability of our investments (although our assessment of the quality of an investment may prove to be inaccurate and we may incur credit losses in excess of our initial expectations). The assignment of an “investment grade” rating to a security by a rating agency does not mean that there is not credit risk associated with the security or that the risk of a credit loss with respect to such security is necessarily remote. Many of the securities we own do have credit ratings and, to the extent we securitize loans and securities, we expect to retain credit rating agencies to provide ratings on the securities created by these securitization entities (as we have in the past).

Rating agencies rate debt securities based upon their assessment of the safety of the receipt of principal and interest payments. Rating agencies do not consider the risks of fluctuations in fair value or other factors that may influence the value of debt securities and, therefore, any assigned credit rating may not fully reflect the true risks of an investment in securities. Also, rating agencies may fail to make timely adjustments to credit ratings based on available data or changes in economic outlook or may otherwise fail to make changes in credit ratings in response to subsequent events, so that our investments may be better or worse than the ratings indicate. Credit rating agencies may change their methods of evaluating credit risk and determining ratings on securities backed by real estate loans and securities. These changes may occur quickly and often. The market’s ability to understand and absorb these changes and the impact to the securitization market in general are difficult to predict. Such changes may have an impact on the amount of investment-grade and non-investment-grade securities that are created or placed on the market in the future. Downgrades to the ratings of securities could have an adverse effect on the value of some of our investments and our cash flows from those investments.

***Changes in prepayment rates of mortgage loans could reduce our earnings, dividends, cash flows, and access to liquidity.***

The economic returns we earn from most of the real estate securities and loans we own (directly or indirectly) are affected by the rate of prepayment of the underlying mortgage loans. Prepayments are difficult to accurately predict and adverse changes in the rate of prepayment could reduce our cash flows, earnings, and dividends. Adverse changes in cash flows would likely reduce the fair values of many of our assets, which could reduce our ability to borrow against our assets and may cause market valuation adjustments for GAAP purposes, which could reduce our reported earnings. While we estimate prepayment rates to determine the effective yield of our assets and valuations, these estimates are not precise and prepayment rates do not necessarily change in a predictable manner as a function of interest rate changes. Prepayment rates can change rapidly. As a result, changes can cause volatility in our financial results, affect our ability to securitize assets, affect our ability to fund acquisitions, and have other negative impacts on our ability to generate earnings.

We may own securities backed by residential loans that are particularly sensitive to changes in prepayments rates. These securities include interest-only securities (IOs) that we acquire from third parties and from our Sequoia entities. Faster prepayments than we anticipated on the underlying loans backing these IOs will have an adverse effect on our returns on these investments and may result in losses. Similarly, we own mortgage servicing rights, or MSRs, associated with residential mortgage loans, and excess MSR investments associated with residential and multifamily mortgage loans, all of which are particularly sensitive to changes in prepayments rates. As the owner of an MSR (or excess MSR investment), we are entitled to a portion of the interest payments made by the borrower in respect of the associated loan and, in the case of MSRs, we are responsible for hiring and compensating a sub-servicer to directly service the associated loan. Faster prepayments than we anticipate on loans associated with MSRs and excess MSR investments we own will have an adverse effect on our returns from these MSRs and may result in losses.

***Interest rate fluctuations can have various negative effects on us and could lead to reduced earnings and increased volatility in our earnings.***

Changes in interest rates, the interrelationships between various interest rates, and interest rate volatility could have negative effects on our earnings, the fair value of our assets and liabilities, loan prepayment rates, and our access to liquidity. Changes in interest rates can also harm the credit performance of our assets. We generally seek to hedge some but not all interest rate risks. Our hedging may not work effectively and we may change our hedging strategies or the degree or type of interest rate risk we assume.

Some of the loans and securities we own or may acquire have adjustable-rate coupons (i.e., they may earn interest at a rate that adjusts periodically based on an interest rate index). The cash flows we receive from these assets may vary as a function of interest rates, as may the reported earnings generated by these assets. We also acquire loans and securities for future sale, as assets we are accumulating for securitization, or as a longer-term investment. We expect to fund assets with a combination of equity, fixed rate debt and adjustable rate debt. To the extent we use adjustable rate debt to fund assets that have a fixed interest rate (or use fixed rate debt to fund assets that have an adjustable interest rate), an interest rate mismatch could exist and we could, for example, earn less (and fair values could decline) if interest rates rise, at least for a time. We may or may not seek to mitigate interest rate mismatches for these assets with hedges such as interest rate agreements and other derivatives and, to the extent we do use hedging techniques, they may not be successful.

Higher interest rates generally reduce the fair value of many of our assets, with the exception of our IOs, MSRs, excess MSR investments, and adjustable-rate assets. This may affect our earnings results, reduce our ability to securitize, re-securitize, or sell our assets, or reduce our liquidity. Higher interest rates could reduce the ability of borrowers to make interest payments or to refinance their loans. Higher interest rates could reduce property values and increased credit losses could result. Higher interest rates could reduce mortgage originations, thus reducing our opportunities to acquire new assets.

When short-term interest rates are high relative to long-term interest rates, an increase in adjustable-rate residential loan prepayments may occur, which would likely reduce our returns from owning interest-only securities backed by adjustable-rate residential loans.

It can be difficult to predict the impact on interest rates of unexpected and uncertain global political and economic events, such as the election of President Trump, the U.K. vote to exit the European Union, or changes in the credit rating of the U.S. government, the United Kingdom, or one or more Eurozone nations; however, increased uncertainty or changes in the economic outlook for, or rating of, the creditworthiness of the U.S. government, the United Kingdom, or Eurozone nations may have adverse impacts on, among other things, the U.S. economy, financial markets, the cost of borrowing, the financial strength of counterparties we transact business with, and the value of assets we hold. Any such adverse impacts could negatively impact the availability to us of short-term debt financing, our cost of short-term debt financing, our business, and our financial results.

***We have significant investment and reinvestment risks.***

*New assets we acquire may not generate yields as attractive as yields on our current assets, which could result in a decline in our earnings per share over time.*

Assets we acquire or invest in may not generate the economic returns and GAAP yields we expect. Realized cash flow could be significantly lower than expected and returns from new investments and acquisitions could be negative. In order to maintain our portfolio size and our earnings, we must reinvest in new assets a portion of the cash flows we receive from principal, interest, and sales. We receive monthly payments from many of our assets, consisting of principal and interest. In addition, occasionally some of our residential securities are called (effectively sold). We may also sell assets from time to time as part of our portfolio and capital management strategies. Principal payments, calls, and sales reduce the size of our current portfolio and generate cash for us.

If the assets we invest in or acquire in the future earn lower GAAP yields than do the assets we currently own, our reported earnings per share could decline over time as the older assets are paid down, are called, or are sold, assuming comparable expenses, credit costs, and market valuation adjustments. Under the effective yield method of accounting that we use for GAAP purposes for some of our assets, we recognize yields on assets based on our assumptions regarding future cash flows. A portion of the cash flows we receive may be used to reduce our basis in these assets. As a result of these various factors, our basis for GAAP amortization purposes may be lower than the current fair values of these assets. Assets with a lower GAAP basis than current fair values generate higher GAAP yields, and such yields are not necessarily available on newly acquired assets. Future economic conditions, including credit results, prepayment patterns, and interest rate trends, are difficult to project with accuracy over the life of the assets we acquire, so there will be volatility in the reported returns over time.

*Our growth may be limited if assets are not available or not available at attractive prices.*

To reinvest the proceeds from principal repayments we receive on our existing investments and deploy capital we raise, we must invest in or acquire new assets. If the availability of new assets is limited, we may not be able to invest in or acquire assets that will generate attractive returns. Generally, asset supply can be reduced if originations of a particular product are reduced or if there are fewer sales in the secondary market of seasoned product from existing portfolios. In particular, assets we believe have a favorable risk/reward ratio may not be available for purchase.

We do not originate residential loans; rather, we rely on the origination market to supply the types of loans we seek to invest in. At times, due to increases in interest rates, heightened credit concerns, strengthened underwriting standards, increased regulation, and/or concerns about economic growth or housing values, the volume of originations may decrease significantly. For example, in recent years residential mortgage interest rates were generally declining, with the result that a significant portion of industry-wide origination volumes were related to residential borrowers refinancing existing mortgage loans. As interest rates have increased, particularly in 2017 and 2018, the volume of refinance loans has declined, and to the extent interest rates continue to increase, refinance loan volume is likely to decline further, and this volume may not return to previous levels. A reduced volume of loan originations may make it difficult for us to acquire loans and securities.

The supply of new issue RMBS collateralized by jumbo mortgage loans available for purchase could be adversely affected if the economics of executing securitizations are not favorable or if the regulations governing the execution of securitizations discourage or preclude certain potential market participants from engaging in these transactions. In addition, if there is not a robust market for triple-A rated securities, the supply of real estate subordinate securities could be significantly diminished.

In 2014, we began entering into risk-sharing arrangements with Fannie Mae and Freddie Mac and more recently we have been purchasing credit risk transfer (CRT) securities issued by Fannie Mae and Freddie Mac under which we are compensated for agreeing to absorb credit losses on new conforming loans or for engaging in similar types of credit risk-sharing or -transfer structures. Since December 2017, we have announced several other new initiatives to grow our investment portfolio. While these initiatives represent potential opportunities for future capital deployment, ultimately these initiatives may not produce sizable investment opportunities due to competition from other investors, regulatory issues, or federal housing finance reform initiatives that impact Fannie Mae and Freddie Mac.

*Investments in diverse types of assets and businesses could expose us to new, different, or increased risks.*

We have invested in and may in the future invest in a variety of real estate and non-real estate related assets that may not be closely related to the types of investments we have traditionally made. Additionally, we may enter into or engage in various types of securitizations, transactions, services, and other operating businesses that are different than the types we have traditionally entered into or engaged in. For example, in 2014 our FHLBC-member subsidiary established a borrowing facility with the FHLBC that provides a source of long-term financing for residential mortgage loans that our subsidiary buys and holds, as a result of which its holdings of residential whole loans have increased. Also, as noted above, we began entering into risk-sharing arrangements with Fannie Mae and Freddie Mac in 2014 and more recently we have been purchasing CRT securities issued by Fannie Mae and Freddie Mac under which we are compensated for agreeing to absorb credit losses on new conforming loans or for engaging in similar types of credit risk-sharing or -transfer structures. As another example, we recently began exploring opportunities to provide expanded financing options to non-bank mortgage loan originators and expanding our mortgage loan purchase activity to include, for example, business purpose loans secured by non-owner occupied rental properties and residential bridge loans. We also recently completed investments in subordinate securities backed by re-performing and non-performing residential loans, excess MSR investments collateralized by residential and multifamily loans, servicer advance investments related to residential mortgage loans, and a whole loan investment fund created to acquire light-renovation multifamily loans. Additionally, we exercised our purchase option to complete the acquisition of 5 Arches.

Any of these actions may expose us to new, different, or increased investment, operational, financial, or management risks. Several of these investments were complex, highly structured, and involve partnerships and joint ventures with co-investors, any or all of which may limit the liquidity of such investments. Additionally, when investing in transactions with complex or novel structures, the risks associated with the transactions and structures may not be fully known to buyers and sellers. For example, we have limited control of our investment in a whole loan investment fund created to acquire light-renovation multifamily loans from Freddie Mac, and there are contingent liabilities associated with this investment that are not reflected on our balance sheet.

For another example, one of our excess MSR investments includes an associated investment in servicer advances financed with non-recourse debt. Non-recourse financing generally limits our exposure to losses to the value of the collateral securing the financing (i.e., the servicer advances). However, a default on such non-recourse financing of servicer advances could result in a complete loss of our servicer advance investments and the related excess MSRs. Additionally, this non-recourse financing is short-term. We may not be able to renew this financing on favorable terms, or at all, which may have a negative impact on the value of our investment. A more detailed discussion of the risks related to this servicer advance financing is described below in Part II, Item 7 of this Annual Report on Form 10-K under the heading, “*Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities.*”

As another example, in connection with our pending acquisition of 5 Arches, we made assumptions about the cash flows and investments that will be generated from the acquisition. There may be risks and challenges associated with the integration of the 5 Arches platform and workforce that we did not anticipate or may not be able to mitigate. If our assumptions are wrong, or if market conditions change, it could have a negative impact on our financial or operational results related to this acquisition and to our business as a whole.

We may invest in non-real estate asset-backed securities (ABS), corporate debt, or equity. We have invested in diverse types of IOs from residential and commercial securitizations sponsored by us or by others. The higher credit and prepayment risks associated with these types of investments may increase our exposure to losses. We may invest in non-U.S. assets that may expose us to currency risks (which we may choose not to hedge) and different types of credit, prepayment, hedging, interest rate, liquidity, legal, and other risks. These types of investments could expose us to new, different, or increased risks that we did not anticipate, which could have a negative impact on the financial returns generated.

In addition, when investing in assets or businesses we are exposed to the risk that those assets, or interest income or revenue generated by those assets or businesses, result in our not meeting the requirements to maintain our REIT status or our status as exempt from registration under the Investment Company Act of 1940, as amended (Investment Company Act), as further described in the risk factors titled *“We have elected to be taxed as a REIT and, as such, are required to meet certain tests in order to maintain our REIT status. This adds complexity and costs to running our business and exposes us to additional risks”* and *“Conducting our business in a manner so that we are exempt from registration under, and in compliance with, the Investment Company Act may reduce our flexibility and could limit our ability to pursue certain opportunities. At the same time, failure to continue to qualify for exemption from the Investment Company Act could adversely affect us.”*

*We may change our investment strategy or financing plans, which may result in riskier investments and diminished returns.*

We may change our investment strategy or financing plans at any time, which could result in our making investments that are different from, and possibly riskier than, the investments we have previously made or described. A change in our investment strategy or financing plans may increase our exposure to interest rate and default risk and real estate market fluctuations. Decisions to employ additional leverage could increase the risk inherent in our investment strategy. Additionally, a portion of our recent investment activity has included financing that is either short-term securitization debt or is incurred by entities that we do not control and thus is not reflected on our balance sheet. Furthermore, a change in our investment strategy could result in our making investments in new asset categories or in different proportions among asset categories than we previously have. For example, as noted above, since December 2017, we have announced several new initiatives to expand our mortgage banking and investment activities, including by exploring opportunities to provide expanded financing options to non-bank mortgage loan originators, expanding our mortgage loan purchase activity to include, for example, business purpose real estate loans secured by non-owner occupied rental properties and residential bridge loans, and increasing the size and optimizing the target returns of our investment portfolio. We also recently completed investments in subordinate securities backed by re-performing and non-performing residential loans, excess MSR investments collateralized by residential and multifamily loans, and a whole loan investment fund created to acquire light-renovation multifamily loans. Additionally, we exercised our purchase option to complete the acquisition of 5 Arches. As another example, in the future, we could determine to invest a greater proportion of our assets in securities backed by non-prime or subprime residential mortgage loans. These changes could result in our making riskier investments, which could ultimately have an adverse effect on our financial returns. Alternatively, we could determine to change our investment strategy or financing plans to be more risk averse, resulting in potentially lower returns, which could also have an adverse effect on our financial returns.

*The performance of the assets we own and the investments we make will vary and may not meet our earnings or cash flow expectations. In addition, the cash flows and earnings from, and market values of, securities, loans, and other assets we own may be volatile.*

We seek to manage certain of the risks associated with acquiring, holding, selling, and managing real estate loans and securities and other real estate-related investments. No amount of risk management or mitigation, however, can change the variable nature of the cash flows of, fair values of, and financial results generated by these loans, securities, and other assets. Changes in the credit performance of, or the prepayments on, these investments, including real estate loans and the loans underlying real estate securities, and changes in interest rates impact the cash flows on these securities and investments, and the impact could be significant for our loans, securities, and other assets with concentrated risks. Changes in cash flows lead to changes in our return on investment and also to potential variability in and level of reported income. The revenue recognized on some of our assets is based on an estimate of the yield over the remaining life of the asset. Thus, changes in our estimates of expected cash flow from an asset will result in changes in our reported earnings on that asset in the current reporting period. We may be forced to recognize adverse changes in expected future cash flows as a current expense, further adding to earnings volatility. Additionally, our non-GAAP measures of financial performance and our earnings calculated in accordance with GAAP may be subject to volatility. Moreover, the Securities and Exchange Commission has increasingly been focused on the use of non-GAAP financial metrics and may require us to change the presentation or method of calculation of our non-GAAP metrics which may result in variability and volatility.

*Changes in the fair values of our assets, liabilities, and derivatives can have various negative effects on us, including reduced earnings, increased earnings volatility, and volatility in our book value.*

Fair values for our assets and liabilities, including derivatives, can be volatile and our revenue and income can be impacted by changes in fair values. The fair values can change rapidly and significantly and changes can result from changes in interest rates, perceived risk, supply, demand, and actual and projected cash flows, prepayments, and credit performance. A decrease in fair value may not necessarily be the result of deterioration in future cash flows. Fair values for illiquid assets can be difficult to estimate, which may lead to volatility and uncertainty of earnings and book value.

For example, real estate-related securities in our investment portfolio may be subject to changes in credit spreads. Credit spreads measure the yield demanded on securities by the market based on their credit relative to a specific benchmark, and is a measure of the perceived risk of the investment. Fixed rate securities are valued based on a market credit spread over the rate payable on fixed rate swaps or fixed rate U.S. Treasuries of like maturity. Floating rate securities are typically valued based on a market credit spread over LIBOR and are affected similarly by changes in LIBOR spreads. Excessive supply of these securities or reduced demand may cause the market to require a higher yield on these securities, resulting in the use of a higher, or “wider,” spread over the benchmark rate to value such securities. Under such conditions, the value of our securities portfolios would tend to decline. Conversely, if the spread used to value such securities were to decrease, or “tighten,” the value of our real estate and other securities portfolio would tend to increase. Such changes in the market value of our real estate-related securities portfolio may affect our net equity, net income or cash flow directly through their impact on unrealized gains or losses on available-for-sale securities, and therefore our ability to realize gains on such securities, or indirectly through their impact on our ability to borrow and access capital. Widening credit spreads could cause the net unrealized gains on our securities and derivatives, recorded in accumulated other comprehensive income or retained earnings, and therefore our book value per share, to decrease and result in net losses.

For GAAP purposes, we mark to market most of the assets and some of the liabilities on our consolidated balance sheet. In addition, valuation adjustments on certain consolidated assets and many of our derivatives are reflected in our consolidated statement of income. Assets that are funded with certain liabilities and hedges may have differing mark-to-market treatment than the liability or hedge. If we sell an asset that has not been marked to market through our consolidated statement of income at a reduced market price relative to its cost basis, our reported earnings will be reduced.

Our loan sale profit margins are generally reflective of gains (or losses) over the period from when we identify a loan for purchase until we subsequently sell or securitize the loan. These profit margins may encompass elements of positive or negative market valuation adjustments on loans, hedging gains or losses associated with related risk management activities, and any other related transaction expenses; however, under GAAP, the differing elements may be realized unevenly over the course of one or more quarters for financial reporting purposes, with the result that our financial results may be more volatile and less reflective of the underlying economics of our business activity.

*Our calculations of the fair value of the securities, loans, MSRs, derivatives, and certain other assets we own or consolidate are based upon assumptions that are inherently subjective and involve a high degree of management judgment.*

We report the fair values of securities, loans, MSRs, derivatives, and certain other assets on our consolidated balance sheets. In computing the fair values for these assets we may make a number of market-based assumptions, including assumptions regarding future interest rates, prepayment rates, discount rates, credit loss rates, and the timing of credit losses. These assumptions are inherently subjective and involve a high degree of management judgment, particularly for illiquid securities and other assets for which market prices are not readily determinable. For further information regarding our assets recorded at fair value see Note 5 to the Financial Statements within this Annual Report on Form 10-K. Use of different assumptions could materially affect our fair value calculations and our financial results. Further discussion of the risk of our ownership and valuation of illiquid securities is set forth in the immediately following risk factor.

*Changes in banks' inter-bank lending rate reporting practices or the method pursuant to which LIBOR is determined may adversely affect the value of the financial obligations to be held or issued by us that are linked to LIBOR.*

LIBOR and other indices which are deemed "benchmarks" are the subject of recent national, international, and other regulatory guidance and proposals for reform. Some of these reforms are already effective while others are still to be implemented. These reforms may cause such benchmarks to perform differently than in the past, or have other consequences which cannot be predicted. It currently appears that, over time, U.S. Dollar LIBOR may be replaced by the Secured Overnight Financing Rate ("SOFR") published by the Federal Reserve Bank of New York. However, the manner and timing of this shift is currently unknown. Market participants are still considering how various types of financial instruments and securitization vehicles should react to a discontinuation of LIBOR. It is possible that not all of our assets and liabilities will transition away from LIBOR at the same time, and it is possible that not all of our assets and liabilities will transition to the same alternative reference rate, in each case increasing the difficulty of hedging. For example, switching existing financial instruments and hedging transactions from LIBOR to SOFR requires calculations of a spread. Industry organizations are attempting to structure the spread calculation in a manner that minimizes the possibility of value transfer between counterparties, borrowers, and lenders by virtue of the transition, but there is no assurance that the calculated spread will be fair and accurate or that all asset types and all types of securitization vehicles will use the same spread. We and other market participants have less experience understanding and modeling SOFR-based assets and liabilities than LIBOR-based assets and liabilities, increasing the difficulty of investing, hedging, and risk management. The process of transition involves operational risks. It is also possible that no transition will occur for many financial instruments. At this time, it is not possible to predict the effect of any such changes, any establishment of alternative reference rates or any other reforms to LIBOR that may be implemented. Uncertainty as to the nature of such potential changes, alternative reference rates or other reforms may adversely affect the market for or value of any securities on which the interest or dividend is determined by reference to LIBOR, loans, derivatives and other financial obligations or on our overall financial condition or results of operations. More generally, any of the above changes or any other consequential changes to LIBOR or any other "benchmark" as a result of international, national or other proposals for reform or other initiatives, or any further uncertainty in relation to the timing and manner of implementation of such changes, could have a material adverse effect on the value of and return on any securities based on or linked to a "benchmark."

***Investments we make, hedging transactions that we enter into, and the manner in which we finance our investments and operations expose us to various risks, including liquidity risk, risks associated with the use of leverage, market risks, and counterparty risk.***

*Many of our investments have limited liquidity.*

Many of the residential, multifamily, and other securities we own or may own are generally illiquid - that is, there is not a significant pool of potential investors that are likely to invest in these, or similar, securities. This illiquidity can also exist for the real estate loans we may hold. At times, the vast majority of the assets we own are illiquid. In turbulent markets, it is likely that the securities, loans, and other assets we own may become even less liquid. As a result, we may not be able to sell certain assets at opportune times or at attractive prices or we may incur significant losses upon sale of these assets, should we want or need to sell them.

*Our level of indebtedness and liabilities could limit cash flow available for our operations, expose us to risks that could adversely affect our business, financial condition and results of operations and impair our ability to satisfy our obligations under our convertible notes and other debt instruments.*

At December 31, 2018, our total consolidated liabilities (excluding indebtedness associated with asset-backed securities issued and other liabilities of consolidated entities, for which we are not liable) was \$4.88 billion. We may also incur additional indebtedness to meet future financing needs. Our indebtedness could have significant negative consequences for our business, results of operations and financial condition, including:

- increasing our vulnerability to adverse economic and industry conditions;
- limiting our ability to obtain additional financing;
- requiring the dedication of a substantial portion of our cash flow from operations to service our indebtedness, thereby reducing the amount of our cash flow available for other purposes;
- requiring asset sales to fund the repayment of maturing debt;
- limiting our flexibility in planning for, or reacting to, changes in our business;
- dilution experienced by our existing stockholders as a result of the conversion of the convertible notes or exchangeable securities into shares of common stock; and
- placing us at a possible competitive disadvantage with less leveraged competitors and competitors that may have better access to capital resources.

We cannot assure you that we will be able to continue to maintain sufficient cash reserves or continue to generate cash flow from operations at levels sufficient to permit us to pay principal, premium, if any, and interest on our indebtedness, or that our cash needs will not increase. If we are unable to generate sufficient cash flow or otherwise obtain funds necessary to make required payments, or if we fail to comply with the various requirements of our indebtedness then outstanding, we would be in default, which would permit the holders of the affected indebtedness to accelerate the maturity of such indebtedness and could cause defaults under our other indebtedness. Any default under any indebtedness could have a material adverse effect on our business, results of operations and financial condition. For an additional discussion of our outstanding indebtedness, see Part II, Item 7 of this Annual Report on Form 10-K under the heading *“Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities.”*

*Our use of financial leverage could expose us to increased risks.*

We fund the residential loans we acquire in anticipation of a future sale or securitization with a combination of equity and short-term debt. In addition, we also make investments in securities and loans financed with short- and long-term debt. By incurring this debt (i.e., by applying financial leverage), we expect to generate more attractive returns on our invested equity capital. However, as a result of using financial leverage (whether for the accumulation of loans or related to longer-term investments), we could also incur significant losses if our borrowing costs increase relative to the earnings on our assets and costs of any related hedges. Financing facility creditors may also force us to sell assets pledged as collateral under adverse market conditions to meet margin calls, for example, in the event of a decrease in the fair values of the assets pledged as collateral. Liquidation of the collateral could create negative tax consequences and raise REIT qualification issues. Further discussion of the risk associated with maintaining our REIT status is set forth in the risk factor titled *“We have elected to be taxed as a REIT and, as such, are required to meet certain tests in order to maintain our REIT status. This adds complexity and costs to running our business and exposes us to additional risks.”* In addition, we make financial covenants to creditors in connection with incurring short- and long-term debt, such as covenants relating to our maintaining a minimum amount of tangible net worth or stockholders’ equity and/or a minimum amount of liquid assets, and a maximum ratio of recourse debt to stockholders’ equity. If we fail to comply with these financial covenants we would be in default under our financing facilities, which could result in, among other things, the liquidation of collateral we have pledged pursuant to these facilities under adverse market conditions and the inability to incur additional borrowings to finance our business activities. A further discussion of financial covenants we are subject to and related risks associated with our use of short-term debt is set forth in Part II, Item 7 of this Annual Report on Form 10-K under the heading, *“Risks Relating to Debt Incurred Under Short- and Long-Term Borrowing Facilities.”* Additionally, our ability to increase our borrowing limits under our debt financing facilities (and therefore increase our investment capacity) may be limited by our ability to raise equity capital, which we may not be able to raise at attractive prices or at all.

*The inability to access financial leverage through warehouse and repurchase facilities, credit facilities, our FHLB-member subsidiary's borrowing facility with the FHLBC, or other forms of debt financing may inhibit our ability to execute our business plan, which could have a material adverse effect on our financial results, financial condition, and business.*

Our ability to fund our business and our investment strategy depends on our securing warehouse, repurchase, or other forms of debt financing (or leverage) on acceptable terms. For example, pending the sale or securitization of a pool of mortgage loans or other assets we generally fund the acquisition of those mortgage loans or other assets through borrowings from warehouse, repurchase, and credit facilities, and other forms of short-term financing.

We cannot assure you that we will be successful in establishing sufficient sources of short-term debt when needed. In addition, because of its short-term nature, lenders may decline to renew our short-term debt upon maturity or expiration, and it may be difficult for us to obtain continued short-term financing. During certain periods, lenders may curtail their willingness to provide financing, as liquidity in short-term debt markets, including repurchase facilities and commercial paper markets, can be withdrawn suddenly, making it difficult or expensive to renew short-term borrowings as they mature. To the extent our business or investment strategy calls for us to access financing and counterparties are unable or unwilling to lend to us, then our business and financial results will be adversely affected. In addition, it is possible that lenders who provide us with financing could experience changes in their ability to advance funds to us, independent of our performance or the performance of our investments, in which case funds we had planned to be able to access may not be available to us. Additionally, federal regulations were adopted by the Federal Housing Finance Agency in January 2016 relating to captive insurance company membership in the Federal Home Loan Bank System. Under these regulations, our captive insurance company subsidiary, RWT Financial, LLC, which is currently a member of the Federal Home Loan Bank of Chicago (FHLBC), is only eligible to remain as a member of the FHLBC for a five-year transition period and may not be able to obtain additional advances or increases to its borrowing capacity from the FHLBC. Although FHLBC is permitted to allow advances that were outstanding to RWT Financial prior to effectiveness of the regulations to remain outstanding until scheduled maturity (even if that scheduled maturity extends beyond the five-year transition period), these regulations may limit RWT Financial's ability to increase the size of its portfolio of residential mortgage loans and thereby may impact the ability to increase net interest income generated by RWT Financial's portfolio of held-for-investment loans, and could otherwise have an adverse effect on our business and results of operations, as further described under the risk factor titled *"Federal regulations may limit, eliminate, or reduce the attractiveness of our subsidiary's ability to use borrowings from the Federal Home Loan Bank of Chicago to finance the mortgage loans and securities it holds and acquires, which could negatively impact our business and operating results."* Additionally, our ability to increase borrowing limits under our debt financing facilities (and therefore increase our investment capacity) may be limited by our ability to raise equity capital, which we may not be able to raise at attractive prices or at all.

*Hedging activities may reduce earnings, may fail to reduce earnings volatility, and may fail to protect our capital in difficult economic environments.*

We attempt to hedge certain interest rate risks (and, at times, prepayment risks and fair values) by balancing the characteristics of our assets and associated (existing and anticipated) liabilities with respect to those risks and entering into various interest rate agreements. The number and scope of the interest rate agreements we utilize may vary significantly over time. We generally seek to enter into interest rate agreements that provide an appropriate and efficient method for hedging certain risks related to changes in interest rates.

The use of interest rate agreements and other instruments to hedge certain of our risks may have the effect over time of lowering long-term earnings to the extent these risks do not materialize. To the extent that we hedge, it is usually to seek to protect us from some of the effects of short-term interest rate volatility, to lower short-term earnings volatility, to stabilize liability costs or fair values, to stabilize our economic returns from, or meet rating agency requirements with respect to, a securitization transaction, or to stabilize the future cost of anticipated issuance of securities by a securitization entity. Hedging may not achieve our desired goals. Hedging with respect to the pipeline of loans we plan to purchase may not be effective due to loan fallout or other reasons. Using interest rate agreements as a hedge may increase short-term earnings volatility, especially if we do not elect certain accounting treatments for our hedges. Reductions in fair values of interest rate agreements may not be offset by increases in fair values of the assets or liabilities being hedged. Conversely, increases in fair values of interest rate agreements may not fully offset declines in fair values of assets or liabilities being hedged. Changes in fair values of interest rate agreements may require us to pledge significant amounts of cash or other acceptable forms of collateral.



We also may hedge by taking short, forward, or long positions in U.S. Treasuries, mortgage securities, or other cash instruments. We may take both long and short positions in credit derivative transactions linked to real estate assets. These derivatives may have additional risks to us, such as: liquidity risk, due to the fact that there may not be a ready market into which we could sell these derivatives if needed; basis risk, which could result in a decline in value or a requirement to make a cash payment as a result of changes in interest rates; and the risk that a counterparty to a derivative is not willing or able to perform its obligations to us due to its financial condition or otherwise.

Our earnings may be subject to fluctuations from quarter to quarter as a result of the accounting treatment for certain derivatives or for assets or liabilities whose terms do not necessarily match those used for derivatives, or as a result of our inability to meet the requirements necessary to obtain specific hedge accounting treatment for certain derivatives.

*We enter into derivative contracts that may expose us to contingent liabilities and those contingent liabilities may not appear on our balance sheet. We may invest in synthetic securities, credit default swaps, and other credit derivatives, which expose us to additional risks.*

We enter into derivative contracts, including interest rate swaps, options, and futures, that could require us to make cash payments in certain circumstances. Additionally, we may be required to make capital contributions to an investment fund in certain circumstances, including if debt covenants relating to financing incurred by the investment fund are not maintained. Such potential payment or capital call obligations would be contingent liabilities and may not appear on our balance sheet. Our ability to satisfy these contingent liabilities depends on the liquidity of our assets and our access to capital and cash. The need to fund these contingent liabilities could adversely impact our financial condition.

We may in the future invest in synthetic securities, credit default swaps, and other credit derivatives that reference other real estate securities or indices. These investments may present risks in excess of those resulting from the referenced security or index. These investments are typically contractual relationships with counterparties and not acquisitions of referenced securities or other assets. In these types of investments, we have no right directly to enforce compliance with the terms of the referenced security or other assets and we have no voting or other consensual rights of ownership with respect to the referenced security or other assets. In the event of insolvency of a counterparty, we will be treated as a general creditor of the counterparty and will have no claim of title with respect to the referenced security.

*Hedging activities may subject us to increased regulation.*

Under the Dodd-Frank Act, there is increased regulation of companies, such as Redwood and certain of our subsidiaries, that enter into interest rate hedging agreements and other hedging instruments and derivatives. This increased regulation could result in Redwood or certain of our subsidiaries being required to register and be regulated as a commodity pool operator or a commodity trading advisor. If we are not able to maintain an exemption from these regulations, it could have a negative impact on our business or financial results. Moreover, rules requiring central clearing of certain interest rate swap and other transactions, as well as rules relating to margin and capital requirements for swap transactions and regulated participants in the swap markets, as well as other swap market regulatory reforms, may increase the cost or decrease the availability to us of hedging transactions, and may also limit our ability to include swaps in our securitization transactions.

*Our results could be adversely affected by counterparty credit risk.*

We have credit risks that are generally related to the counterparties with which we do business. There is a risk that counterparties will fail to perform under their contractual arrangements with us and this risk is usually more pronounced during an economic downturn. Counterparties may seek to eliminate credit exposure by entering into offsetting, or "back-to-back," hedging transactions, and the ability of a counterparty to settle a synthetic transaction may be dependent on whether the counterparties to the back-to-back transactions perform their delivery obligations. Those risks of non-performance may differ materially from the risks entailed in exchange-traded transactions, which generally are backed by clearing organization guarantees, daily mark-to-market and settlement of positions, and segregation and minimum capital requirements applicable to intermediaries. Transactions entered into directly between parties generally do not benefit from those protections, and expose the parties to the risk of counterparty default. Furthermore, there may be practical and timing problems associated with enforcing our rights to assets in the case of an insolvency of a counterparty.

In the event a counterparty to our short-term borrowings becomes insolvent, we may fail to recover the full value of our pledged collateral, thus reducing our earnings and liquidity. In the event a counterparty to our interest rate agreements or other derivatives becomes insolvent or interprets our agreements with it in a manner unfavorable to us, our ability to realize benefits from the hedge transaction may be diminished, any cash or collateral we pledged to the counterparty may be unrecoverable, and we may be forced to unwind these agreements at a loss. In the event a counterparty that sells us residential mortgage loans becomes insolvent or is acquired by a third party, we may be unable to enforce our loan repurchase rights in connection with a breach of loan representations and warranties and we may suffer losses if we must repurchase delinquent loans. In the event that one of our sub-servicers becomes insolvent or fails to perform, loan delinquencies and credit losses may increase and we may not receive the funds to which we are entitled. We attempt to diversify our counterparty exposure and (except with respect to loan representations and warranties) attempt to limit our counterparty exposure to counterparties with investment-grade credit ratings, although we may not always be able to do so. Our counterparty risk management strategy may prove ineffective and, accordingly, our earnings and cash flows could be adversely affected.

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#### **Business, Operational and Other Risks**

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*Through certain of our wholly-owned subsidiaries we have engaged in the past, and plan to continue to engage, in acquiring mortgage loans with the intent to sell these loans to third parties or hold them as investments. Similarly, we have engaged in the past, and may continue to engage, in acquiring residential MSRs. These types of transactions and investments expose us to potentially material risks.*

Acquiring mortgage loans with intent to sell these loans to third parties generally requires us to incur short-term debt, either on a recourse or non-recourse basis, to finance the accumulation of loans or other assets prior to sale. This type of debt may not be available to us, or may only be available to us on an uncommitted basis, including in circumstances where a line of credit had previously been made available or committed to us. In addition, the terms of any available debt may be unfavorable to us or impose restrictive covenants that could limit our business and operations or the violation of which could lead to losses and inhibit our ability to borrow in the future. We expect to pledge assets we acquire to secure the short-term debt we incur. To the extent this debt is recourse to us, if the fair value of the assets pledged as collateral declines, we would be required to increase the amount of collateral pledged to secure the debt or to repay all or a portion of the debt. In addition, when we acquire assets for a sale, we make assumptions about the cash flows that will be generated from those assets and the market value of those assets. If these assumptions are wrong, or if market values change or other conditions change, it could result in a sale that is less favorable to us than initially assumed, which would typically have a negative impact on our financial results.

Furthermore, if we are unable to complete the sale of these types of assets, it could have a negative impact on our business and financial results. We have a limited capacity to hold residential loans on our balance sheet as investments, and our business is not structured to buy-and-hold the full volume of loans that we routinely acquire with the intent to sell. If demand for buying whole-loans weakens, we may be forced to incur additional debt on unfavorable terms or may be unable to borrow to finance these assets, which may in turn impact our ability to continue acquiring loans over the short or long term.

Prior to acquiring loans or other assets for sale, we may undertake underwriting and due diligence efforts with respect to various aspects of the loan or asset. When underwriting or conducting due diligence, we rely on resources and data available to us, which may be limited, and we rely on investigations by third parties. We may also only conduct due diligence on a sample of a pool of loans or assets we are acquiring and assume that the sample is representative of the entire pool. Our underwriting and due diligence efforts may not reveal matters which could lead to losses. If our underwriting process is not robust enough or if we do not conduct adequate due diligence, or the scope of our underwriting or due diligence is limited, we may incur losses. Losses could occur due to the fact that a counterparty that sold us a loan or other asset refuses or is unable (e.g., due to its financial condition) to repurchase that loan or asset or pay damages to us if we determine subsequent to purchase that one or more of the representations or warranties made to us in connection with the sale was inaccurate.

In addition, when selling mortgage loans or acquiring servicing rights associated with residential mortgage loans, we typically make representations and warranties to the purchaser or to other third parties regarding, among other things, certain characteristics of those assets, including characteristics we seek to verify through our underwriting and due diligence efforts. If our representations and warranties are inaccurate with respect to any asset, we may be obligated to repurchase that asset or pay damages, which may result in a loss. We generally only establish reserves for potential liabilities relating to representations and warranties we make if we believe that those liabilities are both probable and estimable, as determined in accordance with GAAP. As a result, we may not have reserves relating to these potential liabilities or any reserves we may establish could be inadequate. Even if we obtain representations and warranties from the counterparties from whom we acquired the loans or other assets, they may not parallel the representations and warranties we make or may otherwise not protect us from losses, including, for example, due to the fact that the counterparty may be insolvent or otherwise unable to make a payment to us at the time we claim damages for a breach of representation or warranty. Furthermore, to the extent we claim that counterparties we have acquired loans from have breached their representations and warranties to us, it may adversely impact our business relationship with those counterparties, including by reducing the volume of business we conduct with those counterparties, which could negatively impact our ability to acquire loans and our business. To the extent we have significant exposure to representations and warranties made to us by one or more counterparties we acquire loans from, we may determine, as a matter of risk management, to reduce or discontinue loan acquisitions from those counterparties, which could reduce the volume of residential loans we acquire and negatively impact our business and financial results.

RWT Financial, our FHLB-member subsidiary, maintains a portfolio of residential mortgage loans it holds for investment with long-term financing provided by the FHLBC. At December 31, 2018, RWT Financial had approximately \$2.00 billion of long-term borrowings outstanding from the FHLBC, which were collateralized by residential mortgage loans. RWT Financial has effectively reached its maximum borrowing capacity from the FHLBC of \$2.00 billion, and it does not expect to be able to obtain any increase in its borrowing capacity in the future. FHLBC financing has enabled RWT Financial to earn attractive returns on loans held as long-term investments, contributing a significant amount to our 2018 earnings. RWT Financial's ability to increase the size of its portfolio of residential mortgage loans may be limited by the lack of availability of attractive financing and this may impact the ability to increase net interest income generated by RWT Financial, as further described under the risk factor titled "Federal regulations may limit, eliminate, or reduce the attractiveness of our subsidiary's ability to use borrowings from the Federal Home Loan Bank of Chicago to finance the mortgage loans and securities it holds and acquires, which could negatively impact our business and operating results." Additionally, the portfolio of residential mortgage loans held as long-term investments exposes us to the risk of loss on the full balance of those loans, which is typically not the case with respect to securities we retain from securitization transactions we sponsor. The materialization of any of these risks related to RWT Financial's investment activity and FHLB financing could significantly impact our financial and operating results.

***Through certain of our wholly-owned subsidiaries we have engaged in the past, and expect to continue to engage in, securitization transactions relating to real estate mortgage loans. In addition, we have invested in and continue to invest in mortgage-backed securities and other ABS issued in securitization transactions sponsored by other companies. These types of transactions and investments expose us to potentially material risks.***

Engaging in securitization transactions and other similar transactions generally requires us to incur short-term debt on a recourse basis to finance the accumulation of loans or other assets prior to securitization. If demand for investing in securitization transactions weakens, we may be unable to complete the securitization of loans accumulated for that purpose, which may hurt our business or financial results. In addition, in connection with engaging in securitization transactions, we engage in due diligence with respect to the loans or other assets we are securitizing and make representations and warranties relating to those loans and assets. The risks associated with incurring this type of debt in connection with securitization activity, the risks related to our ability to complete securitization transactions after we have accumulated loans for that purpose, and the risks associated with the due diligence we conduct, and the representations and warranties we make, in connection with securitization activity are similar to the risks associated with acquiring loans with the intent to sell them to third parties, as described in the immediately preceding risk factor titled "Through certain of our wholly-owned subsidiaries we have engaged in the past, and plan to continue to engage, in acquiring residential mortgage loans with the intent to sell these loans to third parties or hold them as investments. Similarly, we have engaged in the past, and continue to engage, in acquiring residential MSRs. These types of transactions and investments expose us to potentially material risks."

When engaging in securitization transactions, we also prepare marketing and disclosure documentation, including term sheets, offering documents, and prospectuses, that include disclosures regarding the securitization transactions and the assets being securitized. If our marketing and disclosure documentation are alleged or found to contain inaccuracies or omissions, we may be liable under federal and state securities laws (or under other laws) for damages to third parties that invest in these securitization transactions, including in circumstances where we relied on a third party in preparing accurate disclosures, or we may incur other expenses and costs in connection with disputing these allegations or settling claims. We have also engaged in selling or contributing commercial real estate loans, and may in the future sell or contribute multifamily loans, to third parties who, in turn, have securitized those loans. In these circumstances, we have in the past and may in the future also prepare marketing and disclosure documentation, including documentation that is included in term sheets, offering documents, and prospectuses relating to those securitization transactions. We could be liable under federal and state securities laws (or under other laws) for damages to third parties that invest in these securitization transactions, including liability for disclosures prepared by third parties or with respect to loans that we did not sell or contribute to the securitization. Additionally, we typically retain various third-party service providers when we engage in securitization transactions, including underwriters or initial purchasers, trustees, administrative and paying agents, and custodians, among others. We frequently contractually agree to indemnify these service providers against various claims and losses they may suffer in connection with the provision of services to us and/or the securitization trust. To the extent any of these service providers are liable for damages to third parties that have invested in these securitization transactions, we may incur costs and expenses as a result of these indemnities.

In recent years there has also been debate as to whether there are defects in the legal process and legal documents governing transactions in which securitization trusts and other secondary purchasers take legal ownership of residential mortgage loans and establish their rights as first priority lien holders on underlying mortgaged property. To the extent there are problems with the manner in which title and lien priority rights were established or transferred, securitization transactions that we sponsored and third-party sponsored securitizations that we hold investments in may experience losses, which could expose us to losses and could damage our ability to engage in future securitization transactions.

***In connection with our operating and investment activity, we rely on third parties to perform certain services, comply with applicable laws and regulations, and carry out contractual covenants and terms, the failure of which by any of these third parties may adversely impact our business and financial results.***

In connection with our business of acquiring loans, engaging in securitization transactions, and investing in third-party issued securities and other assets, we rely on third party service providers to perform certain services, comply with applicable laws and regulations, and carry out contractual covenants and terms. As a result, we are subject to the risks associated with a third party's failure to perform, including failure to perform due to reasons such as fraud, negligence, errors, miscalculations, or insolvency. For example, if loan servicers experience higher volumes of delinquent loans than they have in the past, there is a risk that, as a result, their operational infrastructures may not be able to properly process this increased volume. Many loan servicers have been accused of improprieties in the handling of the loan modification or foreclosure process with respect to residential mortgage loans that have gone into default. To the extent a third-party loan servicer fails to fully and properly perform its obligations, loans and securities that we hold as investments may experience losses and securitizations that we have sponsored may experience poor performance, and our ability to engage in future securitization transactions could be harmed.

For some of the loans that we hold and for some of the loans we sell or securitize, we hold the right to service those loans and we retain a sub-servicer to service those loans. In these circumstances we are exposed to certain risks, including, without limitation, that we may not be able to enter into subservicing agreements on favorable terms to us or at all, or that the sub-servicer may not properly service the loan in compliance with applicable laws and regulations or the contractual provisions governing their sub-servicing role, and that we would be held liable for the sub-servicer's improper acts or omissions. Additionally, in its capacity as a servicer of residential mortgage loans, a sub-servicer will have access to borrowers' non-public personal information, and we could incur liability in connection with a data breach relating to a sub-servicer, as discussed further below under the risk factor titled *"Maintaining cybersecurity is important to our business and a breach of our cybersecurity could have a material adverse impact. Our technology infrastructure and systems are important and any significant disruption or breach of the security of this infrastructure or these systems could have an adverse effect on our business. We also rely on technology infrastructure and systems of third parties who provide services to us and with whom we transact business."* When we retain a sub-servicer we are generally also obligated to fund any obligation of the sub-servicer to make advances on behalf of a delinquent loan obligor. To the extent any one sub-servicer counterparty services a significant percentage of the loans with respect to which we own the servicing rights, the risks associated with our use of that sub-servicer are concentrated around this single sub-servicer counterparty. To the extent that there are significant amounts of advances that need to be funded in respect of loans where we own the servicing right, it could have a material adverse effect on our business and financial results.

In addition, we have recently participated in various investments structured as joint ventures or partnerships with unaffiliated third parties. Some of these joint venture entities rely, in part, on their members or partners to make committed capital contributions in order to pay the purchase price for investments or to fund shortfalls in capital under related financing agreements. A failure by one of the members to make such capital contributions for amounts required could result in events of default under the terms of the investment or the related financing and a loss of our investment in the joint venture entity and its related investments. For example, in connection with our servicer advance investments, we consolidate an entity that was formed to finance servicing advances and for which we, through our control of an affiliated partnership entity (the "SA Buyer") formed to invest in servicer advance investments and excess MSRs, are the primary beneficiary. SA Buyer has agreed to purchase all future arising servicer advances under certain residential mortgage servicing agreements. SA Buyer relies, in part, on its members to make committed capital contributions in order to pay the purchase price for future servicer advances. A failure by any or all of the members to make such capital contributions for amounts required to fund servicer advances could result in an event of default under our servicer advance financing and a complete loss of our investment in SA Buyer and its servicer advance investments and excess MSRs. Additionally, to the extent that the servicer of the underlying mortgage loans (who is unaffiliated with us except through their co-investment in SA Buyer and the related financing entity) fails to recover the servicer advances in which we have invested, or takes longer than we expect to recover such advances, the value of our investment could be adversely affected and we could fail to achieve our expected return and suffer losses.

We also rely on corporate trustees to act on behalf of us and other holders of ABS in enforcing our rights as security holders. Under the terms of most ABS we hold, we do not have the right to directly enforce remedies against the issuer of the security, but instead must rely on a trustee to act on behalf of us and other security holders. Should a trustee not be required to take action under the terms of the securities, or fail to take action, we could experience losses.

***Our ability to execute or participate in future securitization transactions, including, in particular, securitizations of residential mortgage loans, could be delayed, limited, or precluded by legislative and regulatory reforms applicable to asset-backed securities and the institutions that sponsor, service, rate, or otherwise participate in or contribute to the successful execution of a securitization transaction. Other factors could also limit, delay, or preclude our ability to execute securitization transactions. These legislative, regulatory, and other factors could also reduce the returns we would otherwise expect to earn in connection with executing securitization transactions.***

In July 2010, the Dodd-Frank Act was enacted. Provisions of the Dodd-Frank Act require, among other things, significant revisions to the legal and regulatory framework under which ABS, including residential mortgage-backed securities (RMBS), are issued through the execution of securitization transactions. Some of the provisions of the Dodd-Frank Act have become effective or been implemented. In addition, prior to the passage of the Dodd-Frank Act, the Securities and Exchange Commission (SEC) and the Federal Deposit Insurance Corporation had already published proposed and final regulations under already existing legislative authority relating to the issuance of ABS, including RMBS. Additional federal or state laws and regulations that could affect our ability to execute future securitization transactions could be proposed, enacted, or implemented. In addition, various federal and state agencies and law enforcement authorities, as well as private litigants, have initiated and may, in the future, initiate additional broad-based enforcement actions or claims, the resolution of which may include industry-wide changes to the way residential mortgage loans are originated, transferred, serviced, and securitized, and any of these changes could also affect our ability to execute future securitization transactions. For an example, please refer to the risk factor titled *"Federal and state legislative and regulatory developments and the actions of governmental authorities and entities may adversely affect our business and the value of, and the returns on, mortgages, mortgage-related securities, and other assets we own or may acquire in the future."*

Rating agencies can affect our ability to execute or participate in a securitization transaction, or reduce the returns we would otherwise expect to earn from executing securitization transactions, not only by deciding not to publish ratings for our securitization transactions (or deciding not to consent to the inclusion of those ratings in the prospectuses or other documents we file with the SEC relating to securitization transactions), but also by altering the criteria and process they follow in publishing ratings. Rating agencies could alter their ratings processes or criteria after we have accumulated loans or other assets for securitization in a manner that effectively reduces the value of those previously acquired loans or requires that we incur additional costs to comply with those processes and criteria. For example, to the extent investors in a securitization transaction would have significant exposure to representations and warranties made by us or by one or more counterparties we acquire loans from, rating agencies may determine that this exposure increases investment risks relating to the securitization transaction. Rating agencies could reach this conclusion either because of our financial condition or the financial condition of one or more counterparties we acquire loans from, or because of the aggregate amount of residential loan-related representations and warranties (or other contingent liabilities) we, or one or more counterparties we acquire loans from, have made or have exposure to. In addition, our ability to continue to securitize residential mortgage loans in the future will depend, in part, on the rating agencies' assessment of the investment risks that result from the ability-to-repay regulations and the TILA-RESPA Integrated Disclosure Rule (TRID). This includes, for example, how they assess investment risks associated with (a) non-material errors in loan-related disclosures made to mortgage borrowers, (b) residential mortgage loans that have an interest-only payment feature, or (c) loans under which the borrower has a debt-to-income ratio of more than 43%. These types of loans have historically accounted for a significant amount of the loans we have securitized, but they are not considered "qualified mortgages" under the ability-to-repay regulations. Since these provisions were implemented over the past several years, the rating agencies' assessment of these risks has generally been consistent with ours, but to the extent their assessments diverge from ours, this could negatively impact our ability to execute securitization transactions. If, as a result of any of the foregoing issues, rating agencies place limitations on our ability to execute future securitization transactions or impose unfavorable ratings levels or conditions on our securitization transactions, it could reduce the returns we would otherwise expect to earn from executing these transactions and negatively impact our business and financial results.

Furthermore, other matters, such as (i) accounting standards applicable to securitization transactions and (ii) capital and leverage requirements applicable to banks' and other regulated financial institutions' holdings of ABS, could result in less investor demand for securities issued through securitization transactions we execute or increased competition from other institutions that originate, acquire, and hold commercial real estate loans, residential mortgage loans, and other types of assets and execute securitization transactions.

***Our ability to profitably execute or participate in future securitizations transactions, including, in particular, securitizations of residential mortgage loans, is dependent on numerous factors and if we are not able to achieve our desired level of profitability or if we incur losses in connection with executing or participating in future securitizations it could have a material adverse impact on our business and financial results.***

There are a number of factors that can have a significant impact on whether a securitization transaction that we execute or participate in is profitable to us or results in a loss. One of these factors is the price we pay for the mortgage loans that we securitize, which, in the case of residential mortgage loans, is impacted by the level of competition in the marketplace for acquiring mortgage loans and the relative desirability to originators of retaining mortgage loans as investments or selling them to third parties such as us. Another factor that impacts the profitability of a securitization transaction is the cost to us of the short-term debt that we use to finance our holdings of mortgage loans prior to securitization, which cost is affected by a number of factors including the availability of this type of financing to us, the interest rate on this type of financing, the duration of the financing we incur, and the percentage of our mortgage loans for which third parties are willing to provide short-term financing.

After we acquire mortgage loans that we intend to securitize, we can also suffer losses if the value of those loans declines prior to securitization. Declines in the value of a mortgage loan, for example, can be due to, among other things, changes in interest rates, changes in the credit quality of the loan, and changes in the projected yields required by investors to invest in securitization transactions. To the extent we seek to hedge against a decline in loan value due to changes in interest rates, there is a cost of hedging that also affects whether a securitization is profitable. Other factors that can significantly affect whether a securitization transaction is profitable to us include the criteria and conditions that rating agencies apply and require when they assign ratings to the mortgage-backed securities issued in our securitization transactions, including the percentage of mortgage-backed securities issued in a securitization transaction that the rating agencies will assign a triple-A rating to, which is also referred to as a rating agency subordination level. Rating agency subordination levels can be impacted by numerous factors, including, without limitation, the credit quality of the loans securitized, the geographic distribution of the loans to be securitized, and the structure of the securitization transaction and other applicable rating agency criteria. All other factors being equal, the greater the percentage of the mortgage-backed securities issued in a securitization transaction that the rating agencies will assign a triple-A rating to, the more profitable the transaction will be to us.

The price that investors in mortgage-backed securities will pay for securities issued in our securitization transactions also has a significant impact on the profitability of the transactions to us, and these prices are impacted by numerous market forces and factors. In addition, the underwriter(s) or placement agent(s) we select for securitization transactions, and the terms of their engagement, can also impact the profitability of our securitization transactions. Also, transaction costs incurred in executing transactions impact the profitability of our securitization transactions and any liability that we may incur, or may be required to reserve for, in connection with executing a transaction can cause a loss to us. To the extent that we are not able to profitably execute future securitizations of residential mortgage loans or other assets, including for the reasons described above or for other reasons, it could have a material adverse impact on our business and financial results.

***Our past and future securitization activities or other past and future business or operating activities or practices could expose us to litigation, which may adversely affect our business and financial results.***

Through certain of our wholly-owned subsidiaries we have in the past engaged in or participated in securitization transactions relating to residential mortgage loans, commercial mortgage loans, commercial real estate loans, and other types of assets. In the future we expect to continue to engage in or participate in securitization transactions, including, in particular, securitization transactions relating to residential mortgage loans, and may also engage in other types of securitization transactions or similar transactions. Sequoia securitization entities we sponsored issued ABS backed by residential mortgage loans held by these Sequoia entities. In Acacia securitization transactions we participated in, Acacia securitization entities issued ABS backed by securities and other assets held by these Acacia entities. As a result of declining property values, increasing defaults, changes in interest rates, and other factors, the aggregate cash flows from the loans held by the Sequoia entities and the securities and other assets held by the Acacia entities may be insufficient to repay in full the principal amount of ABS issued by these securitization entities. We are not directly liable for any of the ABS issued by these entities. Nonetheless, third parties who hold the ABS issued by these entities may try to hold us liable for any losses they experience, including through claims under federal and state securities laws or claims for breaches of representations and warranties we made in connection with engaging in these securitization transactions.

For example, as discussed below in Part I, Item 3 of this Annual Report on Form 10-K, on December 23, 2009, the Federal Home Loan Bank of Seattle filed a claim in the Superior Court for the State of Washington against us and our subsidiary, Sequoia Residential Funding, Inc. The complaint related in part to residential mortgage-backed securities that were issued by a Sequoia securitization entity and alleged that, at the time of issuance, we, Sequoia Residential Funding, Inc. and the underwriters made various misstatements and omissions about these securities in violation of Washington state law. We have also been named in other similar lawsuits. A further discussion of these lawsuits is set forth in Note 15 to the Financial Statements within this Annual Report on Form 10-K. For another example, refer to the risk factor below, titled *“Litigation of the type initiated against various trustees of residential mortgage-backed securitization transactions issued prior to financial crisis of 2007-2008 (“RMBS trustee litigation”) negatively impacted, and could further negatively impact, the value of securities we hold, could expose us to indemnification claims, and could impact the profitability of our participation in future securitization transactions.”*

Other aspects of our business operations or practices could also expose us to litigation. In the ordinary course of our business we enter into agreements relating to, among other things, loans we acquire and investments we make, assets and loans we sell, financing transactions, third parties we retain to provide us with goods and services, and our leased office space. We also regularly enter into confidentiality agreements with third parties under which we receive confidential information. If we breach any of these agreements, we could be subject to claims for damages and related litigation. We are also subject to various laws and regulations relating to our business and operations, including, without limitation, privacy laws and regulations and labor and employment laws and regulations, and if we fail to comply with these laws and regulations we could also be subjected to claims for damages and litigation. In particular, if we fail to maintain the confidentiality of consumers’ personal or financial information we obtain in the course of our business (such as social security numbers), we could be exposed to losses. A further discussion of some of these risks is set forth in the risk factor titled *“Maintaining cybersecurity is important to our business and a breach of our cybersecurity could have a material adverse impact. Our technology infrastructure and systems are important and any significant disruption or breach of the security of this infrastructure or these systems could have an adverse effect on our business. We also rely on technology infrastructure and systems of third parties who provide services to us and with whom we transact business.”*

Defending a lawsuit can consume significant resources and may divert management’s attention from our operations. We may be required to establish or increase reserves for potential losses from litigation, which could be material. To the extent we are unsuccessful in our defense of any lawsuit, we could suffer losses which could be in excess of any reserves established relating to that lawsuit) and these losses could be material.

***Litigation of the type initiated against various trustees of residential mortgage-backed securitization transactions issued prior to financial crisis of 2007-2008 ("RMBS trustee litigation") during 2017 negatively impacted, and could further negatively impact, the value of securities we hold, could expose us to indemnification claims, and could impact the profitability of our participation in future securitization transactions.***

Litigation against RMBS trustees has related to, among other things, claims by certain investors in the RMBS issued in those transactions that the trustees of those transactions breached their obligations to investors by, among other things, not appropriately investigating and pursuing remedies against the originators and servicers of the underlying mortgage loans. We are not a party to any RMBS trustee litigation; however, RMBS trustee litigation during 2017 negatively impacted the value of certain residential mortgage-backed securities issued prior to the crisis ("legacy RMBS") that were held in our investment portfolio during the year ended December 31, 2018. The value of other legacy RMBS we continue to hold or acquire could be impacted in the future. In particular, trustees of various legacy RMBS transactions that are the subject of the ongoing RMBS trustee litigation have withheld funds from investors in the RMBS issued in those transactions by asserting that, pursuant to their indemnification rights against the securitization trusts established under the applicable transaction documents, they are entitled to apply those funds to offset litigation expenses - and one trustee asserted that its indemnification rights entitle it to withhold large lump sum amounts to hold and apply to anticipated future litigation expenses. During the year ended December 31, 2018, this holdback resulted in an aggregate loss to the value of our portfolio of securities of approximately \$0.6 million, and other or similar holdbacks by that trustee or other trustees of legacy RMBS transactions could result in further losses to the value of our portfolio of securities in the future, which losses could be material.

***Our cash balances and cash flows may be insufficient relative to our cash needs.***

We need cash to make interest payments, to post as collateral to counterparties and lenders who provide us with short-term debt financing and who engage in other transactions with us, for working capital, to fund REIT dividend distribution requirements, to comply with financial covenants and regulatory requirements, and for other needs and purposes. We may also need cash to repay short-term borrowings when due or in the event the fair values of assets that serve as collateral for that debt decline, the terms of short-term debt become less attractive, or for other reasons. In addition, we may need to use cash to post in response to margin calls relating to various derivative instruments we hold as the values of these derivatives change. Over the near and longer term, we may need cash to fund the repayment of outstanding convertible notes and exchangeable securities that mature in 2019, 2023, and 2024.

Our sources of cash flow include the principal and interest payments on the loans and securities we own, asset sales, securitizations, short-term borrowing, issuing long-term debt, and issuing stock. Our sources of cash may not be sufficient to satisfy our cash needs. Cash flows from principal repayments could be reduced if prepayments slow or if credit quality deteriorates. For example, for some of our assets, cash flows are "locked-out" and we receive less than our pro-rata share of principal payment cash flows in the early years of the investment.

Our minimum dividend distribution requirements could exceed our cash flows if our income as calculated for tax purposes significantly exceeds our net cash flows. This could occur when taxable income (including non-cash income such as discount amortization and interest accrued on negative amortizing loans) exceeds cash flows received. The Internal Revenue Code provides a limited relief provision concerning certain items of non-cash income; however, this provision may not sufficiently reduce our cash dividend distribution requirement. In the event that our liquidity needs exceed our access to liquidity, we may need to sell assets at an inopportune time, thus reducing our earnings. In an adverse cash flow situation, we may not be able to sell assets effectively and our REIT status or our solvency could be threatened. Further discussion of the risk associated with maintaining our REIT status is set forth in the risk factor titled "*We have elected to be taxed as a REIT and, as such, are required to meet certain tests in order to maintain our REIT status. This adds complexity and costs to running our business and exposes us to additional risks.*"

***We are subject to competition and we may not compete successfully.***

We are subject to competition in seeking investments, acquiring and selling loans, engaging in securitization transactions, and in other aspects of our business. Our competitors include commercial banks, other mortgage REITs, Fannie Mae, Freddie Mac, regional and community banks, broker-dealers, insurance companies, and other financial institutions, as well as investment funds and other investors in real estate-related assets. In addition, other companies may be formed that will compete with us. Some of our competitors have greater resources than us and we may not be able to compete successfully with them. Furthermore, competition for investments, making loans, acquiring and selling loans, and engaging in securitization transactions may lead to a decrease in the opportunities and returns available to us.



In addition, there are significant competitive threats to our business from governmental actions and initiatives that have already been undertaken or which may be undertaken in the future. Sustained competition from governmental actions and initiatives could have a material adverse effect on us. For example, Fannie Mae and Freddie Mac are, among other things, engaged in the business of acquiring loans and engaging in securitization transactions. Until 2008, competition from Fannie Mae and Freddie Mac was limited to some extent due to the fact that they were statutorily prohibited from purchasing loans for single unit residences in the continental United States with a principal amount in excess of \$417,000, while much of our business had historically focused on acquiring residential loans with a principal amount in excess of that amount. In February 2008, Congress passed an economic stimulus package that temporarily increased the size of certain loans these entities could purchase to up to \$729,750, if the loans were made to secure real estate purchases in certain high-cost areas of the U.S. Since 2008, the loan size limits for Fannie Mae and Freddie Mac purchases have been adjusted up and down, and as of December 31, 2018, the maximum loan size limit was \$ 726,525, which is an amount that continues to be above the historical loan size limit. In addition, in September 2008, Fannie Mae and Freddie Mac were placed into conservatorship and have become, in effect, instruments of the U.S. federal government.

Furthermore, it is unclear whether the Trump administration's policies, and any future federal legislation or executive or regulatory actions, regarding Fannie Mae and Freddie Mac will continue to maintain, or increase, the role of those entities in the housing finance market. As long as there is governmental support for these entities to continue to operate and provide financing to a significant portion of the mortgage finance market, they will represent significant business competition due to, among other things, their large size and low cost of funding. Additionally, Trump administration policies, federal legislation, or executive or regulatory actions aimed at weakening or dismantling the Dodd-Frank Act and its regulatory apparatus, including by reducing capital requirements on banking institutions or by weakening the CFPB, its leadership, or its enforcement capabilities or priorities, could result in increased competition from commercial banks and other large financial institutions that may have similar advantages due to their size and cost of capital. Further discussion is set forth in the risk factor titled *"Congress and President Trump's administration have made and may continue to make substantial changes to fiscal, tax, and other federal policies that may adversely affect our business."*

To the extent that laws, regulations, or policies governing the business activities of Fannie Mae and Freddie Mac are not changed to limit their role in housing finance (such as a change in these loan size limits or in the guarantee fees they charge), or the competition from these two governmental entities will remain significant or could increase. In addition, to the extent that property values decline while these loan size limits remain the same, it may have the same effect as an increase in this limit, as a greater percentage of loans would likely be within the size limit. Any increase in the loan size limit, or in the overall percentage of loans that are within the limit, allows Fannie Mae and Freddie Mac to compete against us to a greater extent than they had been able to compete previously and our business could be adversely affected. Additionally, the Federal Housing Administration (FHA) and the Department of Veterans Affairs (VA) guarantee qualified residential mortgages, and FHA and VA loans accounted for approximately 24% of the aggregate dollar value of residential loans originated in the U.S. in 2017. The federal government's ability to provide financing to a significant portion of the mortgage finance market through these entities represents significant business competition due to, among other things, their size and low cost of funding.

***Our business model and business strategies, and the actions we take (or fail to take) to implement them and adapt them to changing circumstances involve risk and may not be successful.***

U.S. real estate markets, the mortgage industry and the related capital markets have undergone significant changes since the U.S. financial crisis, including due to the significant governmental interventions in these areas and changes to the laws and regulations that govern the banking and mortgage finance industry. Additionally, it remains unclear how the Trump administration's policies, and any future federal legislation or executive or regulatory actions, regarding Fannie Mae and Freddie Mac and the housing finance market more broadly will impact that market and our business. Additional factors, including a rising or steady interest rate environment, which may cause the volume of refinance loans to decline, and secular trends in consumer demand for renting versus owning a residence, may also contribute to evolving conditions in the mortgage industry and capital markets. Our methods of, and model for, doing business and financing our investments are changing and if we fail to develop, enhance, and implement strategies to adapt to changing conditions in the mortgage industry and capital markets, our business and financial results may be adversely affected. Furthermore, changes we make to our business to respond to changing circumstances may expose us to new or different risks than we were previously exposed to and we may not effectively identify or manage those risks. Further discussion is set forth in the risk factor titled *"Decisions we make about our business strategy and investments, as well as decisions about raising capital or returning capital to shareholders (through dividends or common stock repurchases), could fail to improve our business and results of operations."*

Similarly, the competitive landscape in which we operate and the products and investments for which we compete are also affected by changing conditions. There may be trends or sudden changes in our industry or regulatory environment, changes in the role of government-sponsored entities, such as Fannie Mae and Freddie Mac, changes in the role of credit rating agencies or their rating criteria or processes, or changes in the U.S. economy more generally. If we do not effectively respond to these changes or if our strategies to respond to these changes are not successful, our ability to effectively compete in the marketplace may be negatively impacted, which would likely result in our business and financial results being adversely affected.

We have historically depended upon the issuance of mortgage-backed securities by the securitization entities we sponsor as a funding source for our residential real estate-related business. However, due to market conditions, we did not engage in residential mortgage securitization transactions in 2008 or 2009 and we only engaged in one residential mortgage securitization transaction in 2010 and two residential mortgage securitization transactions in 2011. While we engaged in numerous residential mortgage securitization transactions from 2012 through 2018, we do not know if market conditions will allow us to continue to regularly engage in these types of securitization transactions and any disruption of this market may adversely affect our earnings and growth. For example, in each of 2014 and 2015, we completed four securitization transactions, and in 2016 we completed three securitization transactions, as compared to 12 securitizations in 2013, nine securitizations in 2017, and 12 securitizations in 2018. Even if regular residential mortgage securitization activity continues among market participants other than government-sponsored entities, we do not know if it will continue to be on terms and conditions that will permit us to participate or be favorable to us. Even if conditions are favorable to us, we may not be able to return to or sustain the volume of securitization activity we previously conducted.

***Initiating new business activities or significantly expanding existing business activities may expose us to new risks and will increase our cost of doing business.***

Initiating new business activities or significantly expanding existing business activities are two ways to grow our business and respond to changing circumstances in our industry; however, they may expose us to new risks and regulatory compliance requirements. We cannot be certain that we will be able to manage these risks and compliance requirements effectively. Furthermore, our efforts may not succeed and any revenues we earn from any new or expanded business initiative may not be sufficient to offset the initial and ongoing costs of that initiative, which would result in a loss with respect to that initiative.

For example, since December 2017, we have announced several new initiatives to expand our mortgage banking and investment activities, including by exploring opportunities to provide expanded financing options to non-bank mortgage loan originators and expanding our mortgage loan purchase activity to include, for example, business purpose loans secured by non-owner occupied rental properties and residential bridge loans, and increasing the size and optimizing the target returns of our investment portfolio. We also recently completed investments in subordinate securities backed by re-performing and non-performing residential loans, excess MSR investments collateralized by residential and multifamily loans, and a whole loan investment fund created to acquire light-renovation multifamily loans. Additionally, we exercised our purchase option to complete the acquisition of 5 Arches, an originator of business-purpose real estate loans, following a minority equity investment in 5 Arches in May 2018. Further discussion of these business changes is set forth in the risk factor titled *"Decisions we make about our business strategy and investments, as well as decisions about raising capital or returning capital to shareholders (through dividends or common stock repurchases), could fail to improve our business and results of operations."*

In connection with initiating new business activities or expanding existing business activities, or for other business reasons, we may create new subsidiaries. Frequently, these subsidiaries would be wholly-owned, directly or indirectly, by Redwood, but we may also create or participate in partnerships and joint ventures with third-party co-investors and in those cases, the entities may be partially-owned by Redwood. The creation of those subsidiaries may increase our administrative costs and expose us to other legal and reporting obligations, including, for example, because they may be incorporated in states other than Maryland or may be established in a foreign jurisdiction. Any new subsidiary we create may elect, together with us, to be treated as our taxable REIT subsidiary. Taxable REIT subsidiaries are wholly-owned or partially-owned subsidiaries of a REIT that pay corporate income tax on the income they generate. A taxable REIT subsidiary is not able to deduct its dividends paid to its parent in determining its taxable income and any dividends paid to the parent are generally recognized as income at the parent level.

***Our future success depends on our ability to attract and retain key personnel.***

Our future success depends on the continued service and availability of skilled personnel, including members of our executive management team such as our Chief Executive Officer, President, General Counsel, Chief Financial Officer, Chief Investment Officer, Managing Director-Head of Residential, and Chief Human Resources Officer. To the extent personnel we attempt to hire are concerned that economic, regulatory, or other factors could impact our ability to maintain or expand our current level of business, it could negatively impact our ability to hire the personnel we need to operate our business. We cannot assure you that we will be able to attract and retain key personnel.

Additionally, in May 2018, our then-Chief Executive Officer retired from that position, at which time each of our then-President and then-Executive Vice President were promoted to the positions of Chief Executive Officer and President, respectively. If this leadership transition causes instability or is ultimately not successful, our business and financial results may be adversely impacted.

***We may not be able to obtain or maintain the governmental licenses required to operate our business and we may fail to comply with various state and federal laws and regulations applicable to our business of acquiring residential mortgage loans and servicing rights. We are approved to service residential mortgage loans sold to Freddie Mac and Fannie Mae and failure to maintain our status as an approved servicer could harm our business.***

While we are not required to obtain licenses to purchase mortgage-backed securities, the purchase of residential mortgage loans and certain business purpose mortgage loans in the secondary market may, in some circumstances, require us to maintain various state licenses. Acquiring the right to service residential mortgage loans and certain business purpose mortgage loans may also, in some circumstances, require us to maintain various state licenses even though we currently do not expect to directly engage in loan servicing ourselves. As a result, we could be delayed in conducting certain business if we were first required to obtain a state license. We cannot assure you that we will be able to obtain all of the licenses we need or that we would not experience significant delays in obtaining these licenses. Furthermore, once licenses are issued we are required to comply with various information reporting and other regulatory requirements to maintain those licenses, and there is no assurance that we will be able to satisfy those requirements or other regulatory requirements applicable to our business of acquiring mortgage loans on an ongoing basis. Our failure to obtain or maintain required licenses or our failure to comply with regulatory requirements that are applicable to our business of acquiring mortgage loans may restrict our business and investment options and could harm our business and expose us to penalties or other claims.

For example, under the Dodd-Frank Act, the CFPB also has regulatory authority over certain aspects of our business as a result of our residential mortgage banking activities, including, without limitation, authority to bring an enforcement action against us for failure to comply with regulations promulgated by the Bureau that are applicable to our business. One of the CFPB's areas of focus has been on whether companies like Redwood take appropriate steps to ensure that business arrangements with service providers do not present risks to consumers. The sub-servicers we retain to directly service residential mortgage loans (when we own the associated MSRs) are among our most significant service providers with respect to our residential mortgage banking activities and our failure to take steps to ensure that these sub-servicers are servicing these residential mortgage loans in accordance with applicable law and regulation could result in enforcement action by the CFPB against us that could restrict our business, expose us to penalties or other claims, negatively impact our financial results, and damage our reputation.

As another example, rules under the Home Mortgage Disclosure Act (HMDA) that took effect in January 2018 impose expanded data collection requirements and additional reporting obligations on mortgage lenders and purchasers of residential mortgage loans. The expanded data collection requirements may result in a higher frequency of data errors, which in turn could be perceived by regulators as an indication of inadequate controls and poor compliance processes, and could lead to monetary civil penalties. Additionally, the availability of increased amounts of data may increase regulatory scrutiny of our mortgage loan purchasing patterns. In addition, the Equal Credit Opportunity Act, and other Federal and state laws and regulations that apply to certain of our investment and business activities, include consumer protections relating to discrimination, abusive and deceptive practices, and other consumer-related matters. To the extent these laws and regulations apply to us, our failure to comply with them, even if not intentional, could give rise to liabilities, fines, and remediation requirements, which could be material. Failure to comply with these laws and regulations could also result for incorrectly concluding that certain aspects of our investment and business activities are not subject to certain laws or regulations.

In addition, we are a servicer approved to service residential mortgage loans sold to Freddie Mac and Fannie Mae. As an approved servicer, we are required to conduct certain aspects of our operations in accordance with applicable policies and guidelines published by Freddie Mac and Fannie Mae. Failure to maintain our status as an approved servicer would mean we would not be able to service mortgage loans for these entities, or could otherwise restrict our business and investment options and could harm our business and expose us to losses or other claims.

***With respect to mortgage loans we own, or which we have purchased and subsequently sold, we may be subject to liability for potential violations of the CFPB's TILA-RESPA Integrated Disclosure rule (also referred to as "TRID") or other similar consumer protection laws and regulations, which could adversely impact our business and financial results.***

Federal consumer protection laws and regulations have been enacted and promulgated that are designed to regulate residential mortgage loan underwriting and originators' lending processes, standards, and disclosures to borrowers. These laws and regulations include the CFPB's "TRID", "ability-to-repay" and "qualified mortgage" regulations. In addition, there are various other federal, state, and local laws and regulations that are intended to discourage predatory lending practices by residential mortgage loan originators. For example, the federal Home Ownership and Equity Protection Act of 1994 (HOEPA) prohibits inclusion of certain provisions in residential mortgage loans that have mortgage rates or origination costs in excess of prescribed levels and requires that borrowers be given certain disclosures prior to origination. Some states have enacted, or may enact, similar laws or regulations, which in some cases may impose restrictions and requirements greater than those in place under federal laws and regulations. In addition, under the anti-predatory lending laws of some states, the origination of certain residential mortgage loans, including loans that are classified as "high cost" loans under applicable law, must satisfy a net tangible benefits test with respect to the borrower. This test, as well as certain standards set forth in the "ability-to-repay" and "qualified mortgage" regulations, may be highly subjective and open to interpretation. As a result, a court may determine that a residential mortgage loan did not meet the standard or test even if the originator reasonably believed such standard or test had been satisfied. Failure of residential mortgage loan originators or servicers to comply with these laws and regulations could subject us, as an assignee or purchaser of these loans (or as an investor in securities backed by these loans), to monetary penalties and defenses to foreclosure, including by recoupment or setoff of finance charges and fees collected, and could result in rescission of the affected residential mortgage loans, which could adversely impact our business and financial results.

***Environmental protection laws that apply to properties that secure or underlie our loan and investment portfolio could result in losses to us. We may also be exposed to environmental liabilities with respect to properties we become direct or indirect owners of or to which we take title, which could adversely affect our business and financial results.***

Under the laws of several states, contamination of a property may give rise to a lien on the property to secure recovery of the cleanup costs. In certain of these states, such a lien has priority over the lien of an existing mortgage against the property, which could impair the value of an investment in a security we own backed by such a property or could reduce the value of such a property that underlies loans we have made or own. In addition, under the laws of some states and under the federal Comprehensive Environmental Response, Compensation and Liability Act of 1980, we may be liable for costs of addressing releases or threatened releases of hazardous substances that require remedy at a property securing or underlying a loan we hold if our agents or employees have become sufficiently involved in the hazardous waste aspects of the operations of the borrower of that loan, regardless of whether or not the environmental damage or threat was caused by us or the borrower.

In the course of our business, we may take title to real estate or may otherwise become direct or indirect owners of real estate. If we do take title or become a direct or indirect owner, we could be subject to environmental liabilities with respect to the property, including liability to a governmental entity or third parties for property damage, personal injury, investigation, and clean-up costs. In addition, we may be required to investigate or clean up hazardous or toxic substances or chemical releases at a property. The costs associated with investigation or remediation activities could be substantial. If we ever become subject to significant environmental liabilities, our business and financial results could be materially and adversely affected.

***Maintaining cybersecurity is important to our business and a breach of our cybersecurity could have a material adverse impact. Our technology infrastructure and systems are important and any significant disruption or breach of the security of this infrastructure or these systems could have an adverse effect on our business. We also rely on technology infrastructure and systems of third parties who provide services to us and with whom we transact business.***

When we acquire real estate mortgage loans, or the rights to service mortgage loans, we come into possession of borrower non-public personal information that an identity thief could utilize in engaging in fraudulent activity or theft. We may share this information with third party service providers, including loan sub-servicers, or with third parties interested in acquiring such loans from us. We have acquired more than 100,000 residential mortgage loans and rights to service residential mortgage loans since 2010 and also acquired thousands of residential mortgage loans prior to 2010. While we have security measures in place to protect this information and prevent security breaches, these security measures may be compromised as a result of third-party action, including intentional misconduct by computer hackers, cyber-attacks, service provider or vendor error, or malfeasance or other intentional or unintentional acts by third parties, including third-party service providers. Furthermore, borrower data, including personally identifiable information, may be lost, exposed, or subject to unauthorized access or use as a result of accidents, errors, or malfeasance by our employees, independent contractors, or others working with us or on our behalf. Our servers and systems, and those of our service providers, may be vulnerable to computer malware, break-ins, denial-of-service attacks, and similar disruptions from unauthorized tampering with our computer systems, which could result in someone obtaining unauthorized access to borrowers' data or our data, including other confidential business information. Because the techniques used to obtain unauthorized access to, or to sabotage, systems change frequently and often are not recognized until launched against a target, we may be unable to anticipate these techniques or implement adequate preventative measures. We may also experience security breaches that may remain undetected for an extended period.

We may be liable for losses suffered by individuals whose identities are stolen as a result of a breach of the security of the systems that we or third-party service providers of ours store this information on, and any such liability could be material. Even if we are not liable for such losses, any breach of these systems could expose us to material costs in notifying affected individuals and providing credit monitoring services to them, as well as regulatory fines or penalties. In addition, any breach of these systems could disrupt our normal business operations and expose us to reputational damage and lost business, revenues, and profits. Any insurance we maintain against the risk of this type of loss may not be sufficient to cover actual losses, or may not apply to the circumstances relating to any particular breach.

In addition, in order to analyze, acquire, and manage our investments, manage the operations and risks associated with our business, assets, and liabilities, and prepare our financial statements we rely upon computer hardware and software systems. Some of these systems are located at our offices and some are maintained by third party vendors or located at facilities maintained by third parties. We also rely on technology infrastructure and systems of third parties who provide services to us and with whom we transact business. Any significant interruption in the availability or functionality of these systems could impair our access to liquidity, damage our reputation, and have an adverse effect on our operations and on our ability to timely and accurately report our financial results.

In addition, any breach of the security of these systems could have an adverse effect on our operations and the preparation of our financial statements. Steps we have taken to provide for the security of our systems and data may not effectively prevent others from obtaining improper access to our systems data. Improper access could expose us to risks of data loss, reputational damage, increased regulatory scrutiny, litigation, and liabilities to third parties, and otherwise disrupt our operations.

***Our business could be adversely affected by deficiencies in our disclosure controls and procedures or internal controls over financial reporting.***

The design and effectiveness of our disclosure controls and procedures and internal controls over financial reporting may not prevent all errors, misstatements, or misrepresentations. While management continues to review the effectiveness of our disclosure controls and procedures and internal controls over financial reporting, there can be no assurance that our disclosure controls and procedures or internal controls over financial reporting will be effective in accomplishing all control objectives all of the time. Deficiencies, particularly material weaknesses or significant deficiencies, in internal controls over financial reporting which have occurred or which may occur in the future could result in misstatements of our financial results, restatements of our financial statements, a decline in our stock price, or an otherwise material and adverse effect on our business, reputation, financial results, or liquidity and could cause investors and creditors to lose confidence in our reported financial results.

***Our risk management efforts may not be effective.***

We could incur substantial losses and our business operations could be disrupted if we are unable to effectively identify, manage, monitor, and mitigate financial risks, such as credit risk, interest rate risk, prepayment risk, liquidity risk, and other market-related risks, as well as operational risks related to our business, assets, and liabilities. Our risk management policies, procedures, and techniques may not be sufficient to identify all of the risks we are exposed to, mitigate the risks we have identified for mitigation, or to identify additional risks to which we may become subject in the future. Expansion of our business activities may also result in our being exposed to risks that we have not previously been exposed to or may increase our exposure to certain types of risks and we may not effectively identify, manage, monitor, and mitigate these risks as our business activity changes or increases. Further discussion is set forth in the risk factor titled *“Initiating new business activities or significantly expanding existing business activities may expose us to new risks and will increase our cost of doing business.”*

***We could be harmed by misconduct or fraud that is difficult to detect.***

We are exposed to risks relating to misconduct by our employees, contractors we use, or other third parties with whom we have relationships. For example, our employees could execute unauthorized transactions, use our assets improperly or without authorization, perform improper activities, use confidential information for improper purposes, or mis-record or otherwise try to hide improper activities from us. This type of misconduct could also relate to assets we manage for others through our investment advisory subsidiary. This type of misconduct can be difficult to detect and if not prevented or detected could result in claims or enforcement actions against us or losses. Accordingly, misconduct by employees, contractors, or others could subject us to losses or regulatory sanctions and seriously harm our reputation. Our controls may not be effective in detecting this type of activity.

***Inadvertent errors, including, for example, errors in the implementation of information technology systems, could subject us to financial loss, litigation, or regulatory action.***

Our employees, contractors we use, or other third parties with whom we have relationships may make inadvertent errors that could subject us to financial losses, claims, or enforcement actions. These types of errors could include, but are not limited to, mistakes in executing, recording, or reporting transactions we enter into for ourselves or with respect to assets we manage for others. Errors in the implementation of information technology systems, compliance systems and procedures, or other operational systems and procedures could also interrupt our business or subject us to financial losses, claims, or enforcement actions. Errors could also result in the inadvertent disclosure of mortgage-borrower non-public personal information. Inadvertent errors expose us to the risk of material losses until the errors are detected and remedied prior to the incurrence of any loss. The risk of errors may be greater for business activities that are new for us or have non-standardized terms, for areas of our business that we are expanding, or for areas of our business that rely on new employees or on third parties that we have only recently established relationships with.

***Our business may be adversely affected if our reputation is harmed.***

Our business is subject to significant reputational risks. If we fail, or appear to fail, to address various issues that may affect our reputation, our business could be harmed. Issues could include real or perceived legal or regulatory violations or be the result of a failure in governance, risk-management, technology, or operations. Similarly, market rumors and actual or perceived association with counterparties whose own reputation is under question could harm our business. Lawsuits brought against us (or the resolution of lawsuits brought against us), claims of employee misconduct, claims of wrongful termination, adverse publicity, conflicts of interest, ethical issues, or failure to maintain the security of our information technology systems or to protect non-public personal information could also cause significant reputational damages. Such reputational damage could result not only in an immediate financial loss, but could also result in a loss of business relationships, the ability to raise capital, and the ability to access liquidity through borrowing facilities.

***Our financial results are determined and reported in accordance with generally accepted accounting principles (and related conventions and interpretations), or GAAP, and are based on estimates and assumptions made in accordance with those principles, conventions, and interpretations. Furthermore, the amount of dividends we are required to distribute as a REIT is driven by the determination of our income in accordance with the Internal Revenue Code rather than GAAP.***

*Our reported GAAP financial results differ from the taxable income results that drive our dividend distribution requirements and, therefore, our GAAP results may not be an accurate indicator of taxable income and dividend distributions.*

Generally, the cumulative income we report relating to an investment asset will be the same for GAAP and tax purposes, although the timing of this recognition over the life of the asset could be materially different. There are, however, certain permanent differences in the recognition of certain expenses under the respective accounting principles applied for GAAP and tax purposes and these differences could be material. Thus, the amount of GAAP earnings reported in any given period may not be indicative of future dividend distributions. A further explanation of differences between our GAAP and taxable income is presented in “*Management’s Discussion and Analysis of Financial Condition and Results of Operations*,” which is set forth in Part II, Item 7 of this Annual Report on Form 10-K.

Our minimum dividend distribution requirements are determined under the REIT tax laws and are based on our REIT taxable income as calculated for tax purposes pursuant to the Internal Revenue Code. Our Board of Directors may also decide to distribute more dividends than required based on these determinations. One should not expect that our retained GAAP earnings will equal cumulative distributions, as the Board of Directors’ dividend distribution decisions, permanent differences in GAAP and tax accounting, and even temporary differences may result in material differences in these balances.

*Over time, accounting principles, conventions, rules, and interpretations may change, which could affect our reported GAAP and taxable earnings and stockholders’ equity.*

Accounting rules for the various aspects of our business change from time to time. Changes in GAAP, or the accepted interpretation of these accounting principles, can affect our reported income, earnings, and stockholders’ equity. In addition, changes in tax accounting rules or the interpretations thereof could affect our taxable income and our dividend distribution requirements. Predicting and planning for these changes can be difficult.

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#### **Risks Related to Redwood’s Capital, REIT and Legal/Organizational Structure**

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***We have elected to be taxed as a REIT and, as such, are required to meet certain tests in order to maintain our REIT status. This adds complexity and costs to running our business and exposes us to additional risks.***

*Failure to qualify as a REIT could adversely affect our net income and dividend distributions and could adversely affect the value of our common stock.*

We have elected to be taxed as a REIT for federal income tax purposes for all tax years since 1994. However, many of the requirements for qualification as a REIT are highly technical and complex and require an analysis of particular facts and an application of the legal requirements to those facts in situations where there is only limited judicial and administrative guidance. Thus, we cannot assure you that the Internal Revenue Service (the “IRS”) or a court would agree with our conclusion that we have qualified as a REIT historically, or that changes to our investments or business or the law will not cause us to fail to qualify as a REIT in the future. Furthermore, in an environment where assets may quickly change in value, previous planning for compliance with REIT qualification rules may be disrupted. If we failed to qualify as a REIT for federal income tax purposes and did not meet the requirements for statutory relief, we would be subject to federal corporate income tax on our taxable income, and we would not be allowed a deduction for distributions to shareholders in computing our taxable income. In such a case, we may need to borrow money or sell assets in order to pay the taxes due, even if the market conditions are not favorable for such sales or borrowings. In addition, unless we are entitled to relief under applicable statutory provisions, we could not elect to be taxed as a REIT for four years thereafter. Failure to qualify as a REIT could adversely affect our dividend distributions and could adversely affect the value of our common stock.

*Maintaining REIT status and avoiding the generation of excess inclusion income at Redwood Trust, Inc. and certain of our subsidiaries may reduce our flexibility and could limit our ability to pursue certain opportunities. Failure to appropriately structure our business and transactions to comply with laws and regulations applicable to REITs could have adverse consequences.*

To maintain REIT status, we must follow certain rules and meet certain tests. In doing so, our flexibility to manage our operations may be reduced. For instance:

- Compliance with the REIT income and asset rules, or uncertainty about the application of those rules to certain investments, may result in our holding investments in our taxable REIT subsidiaries (where any income they produce is subject to corporate-level taxation) when we would prefer to hold those investments in an entity that is taxed as a REIT (where they would not be subject to corporate-level taxation).
- Compliance with the REIT income and asset rules may limit the type or extent of financing or hedging that we can undertake.
- Our ability to own non-real estate assets and earn non-real estate related income is limited, and the rules for classifying assets and income are complicated. Our ability to own equity interests in other entities is also limited. If we fail to comply with these limits, we may be forced to liquidate attractive investments on short notice on unfavorable terms in order to maintain our REIT status.
- We generally use taxable REIT subsidiaries to own non-real estate assets and engage in activities that may give rise to non-real estate related income under the REIT rules. However, our ability to invest in taxable REIT subsidiaries is limited under the REIT rules. No more than 20% of the value of our total assets can be represented by securities of one or more taxable REIT subsidiaries. Maintaining compliance with this limit could require us to constrain the growth of our taxable REIT subsidiaries (and the business and investing activities they conduct) in the future.
- Meeting minimum REIT dividend distribution requirements could reduce our liquidity. We may earn non-cash REIT taxable income due to timing and/or character mismatches between the computation of our income for tax and accounting purposes. Earning non-cash REIT taxable income could necessitate our selling assets, incurring debt, or raising new equity in order to fund dividend distributions.
- We could be viewed as a “dealer” with respect to certain transactions and become subject to a 100% prohibited transaction tax or other entity-level taxes on income from such transactions.

Furthermore, the rules we must follow and the tests we must satisfy to maintain our REIT status may change, or the interpretation of these rules and tests by the IRS may change.

In addition, our stated goal has been to not generate excess inclusion income at Redwood Trust, Inc. and certain of its subsidiaries that would be taxable as unrelated business taxable income (“UBTI”) to our tax-exempt shareholders. Achieving this goal has limited, and may continue to limit, our flexibility in pursuing certain transactions or has resulted in, and may continue to result in, our having to pursue certain transactions through a taxable REIT subsidiary, which would reduce the net returns on these transactions by the associated tax liabilities payable by such subsidiary. Despite our efforts to do so, we may not be able to avoid creating or distributing UBTI to our shareholders.



*To maintain our REIT status, we may be forced to borrow funds during unfavorable market conditions, and the unavailability of such capital on favorable terms at the desired times, or at all, may cause us to curtail our investment activities and/or to dispose of assets at inopportune times, which could adversely affect our financial condition, results of operations, cash flow and per share trading price of our common stock.*

To qualify as a REIT, we generally must distribute to our shareholders at least 90% of our net taxable income each year (excluding any net capital gains), and we will be subject to regular corporate income taxes to the extent that we distribute less than 100% of our net taxable income each year. In addition, we will be subject to a 4% nondeductible excise tax on the amount, if any, by which distributions we pay in any calendar year are less than the sum of 85% of our ordinary income, 95% of our net capital gains, and 100% of our undistributed income from prior years. To maintain our REIT status and avoid the payment of federal income and excise taxes, we may need to borrow funds to meet the REIT distribution requirements, even if the then-prevailing market conditions are not favorable for these borrowings. These borrowing needs could result from differences in timing between the actual receipt of income and inclusion of income for federal income tax purposes. For example, we may be required to accrue interest and discount income on mortgage loans, MBS, and other types of debt securities or interests in debt securities before we receive any payments of interest or principal on such assets. Our access to third-party sources of capital depends on a number of factors, including the market's perception of our growth potential, our current debt levels, the market price of our common stock, and our current and potential future earnings. We cannot assure you that we will have access to such capital on favorable terms at the desired times, or at all, which may cause us to curtail our investment activities and/or to dispose of assets at inopportune times, and could adversely affect our financial condition, results of operations, cash flow and per share trading price of our common stock.

*Dividends payable by REITs, including us, generally do not qualify for the reduced tax rates available for some dividends.*

The maximum U.S. federal income tax rate for qualified dividends paid by domestic non-REIT corporations to U.S. stockholders that are individuals, trust or estates is generally 20%. Although dividends paid by REITs to such stockholders are generally not eligible for that rate (subject to limited exceptions), under the Tax Act, such stockholders may deduct up to 20% of ordinary dividends from a REIT for taxable years beginning after December 31, 2017 and before January 1, 2026. Although this deduction reduces the effective tax rate applicable to certain dividends paid by REITs, such tax rate is still higher than the tax rate applicable to regular corporate qualified dividends. This may cause investors to view REIT investments as less attractive than investments in non-REIT corporations, which in turn may adversely affect the value of shares of REITs, including the shares of our common stock.

*The failure of mortgage loans or MBS subject to a repurchase agreement or a mezzanine loan to qualify as a real estate asset would adversely affect our ability to qualify as a REIT.*

When we enter into short-term financing arrangements in the form of repurchase agreements, we will sell certain of our assets to a counterparty and simultaneously enter into an agreement to repurchase the sold assets. We believe that we will be treated for U.S. federal income tax purposes as the owner of the assets that are the subject of any such agreements notwithstanding that such agreements may transfer record ownership of the assets to the counterparty during the term of the agreement. It is possible, however, that the IRS could assert that we did not own the assets during the term of the repurchase agreement, in which case we could fail to qualify as a REIT.

In addition, although we no longer originate commercial mezzanine loans and we sold our commercial mezzanine loan portfolio, in the past we have originated and retained as investments commercial mezzanine loans. Commercial mezzanine loans are loans secured by equity interests in a partnership or limited liability company that directly or indirectly owns commercial real estate. In Revenue Procedure 2003-65, the IRS provided a safe harbor pursuant to which a mezzanine loan, if it meets each of the requirements contained in the Revenue Procedure, will be treated by the IRS as a real estate asset for purposes of the REIT asset tests, and interest derived from the mezzanine loan will be treated as qualifying mortgage interest for purposes of the REIT 75% gross income test. Although the Revenue Procedure provides a safe harbor on which taxpayers may rely, it does not prescribe rules of substantive tax law. We believe that the mezzanine loans that we have treated as real estate assets generally met all of the requirements for reliance on this safe harbor. However, there can be no assurance that the IRS will not challenge the tax treatment of these mezzanine loans, and if such a challenge were sustained, we could in certain circumstances be required to pay a penalty tax or fail to qualify as a REIT.

*Changes in tax rules could adversely affect REITs and could adversely affect the value of our common stock.*

The rules addressing federal income taxation are constantly under review by persons involved in the legislative process and by the IRS and the U.S. Department of the Treasury. Any such future changes in the regulations or tax laws applicable to REITs or to mortgage related financial products could negatively impact our operations or reduce any competitive advantages we may have relative to non-REIT entities, either of which could reduce the value of our common stock.

The Tax Act has significantly changed the U.S. federal income taxation of U.S. businesses and their owners, including REITs and their stockholders. Changes made by the Tax Act that could affect us and our stockholders include:

- temporarily reducing individual U.S. federal income tax rates on ordinary income - the highest individual U.S. federal income tax rate has been reduced from 39.6% to 37% for taxable years beginning after December 31, 2017 and before January 1, 2026;
- permanently eliminating the progressive corporate tax rate structure, which previously imposed a maximum corporate tax rate of 35%, and replacing it with a flat corporate tax rate of 21%;
- permitting a deduction for certain pass-through business income, including dividends received by our stockholders from us that are not designated by us as capital gain dividends or qualified dividend income, which will generally allow individuals, trusts, and estates to deduct up to 20% of such amounts for taxable years beginning after December 31, 2017 and before January 1, 2026;
- reducing the highest rate of withholding with respect to our distributions to non-U.S. stockholders that are treated as attributable to gains from the sale or exchange of U.S. real property interests from 35% to 21%;
- limiting our deduction for net operating losses arising in taxable years beginning after December 31, 2017 to 80% of REIT taxable income (determined without regard to the dividends paid deduction);
- generally limiting the deduction for net business interest expense in excess of 30% of a business's "adjusted taxable income;" and
- eliminating the corporate alternative minimum tax.

Many of these changes that are applicable to us are effective beginning with our 2018 taxable year, without any transition periods or grandfathering for existing transactions. The legislation is unclear in many respects and could be subject to potential amendments and technical corrections, as well as interpretations and implementing regulations by the Treasury and IRS, any of which could lessen or increase the impact of the legislation. In addition, it is unclear how these U.S. federal income tax changes will affect state and local taxation, which often uses federal taxable income as a starting point for computing state and local tax liabilities. Some of the changes made by the tax legislation may adversely affect us in one or more reporting periods and prospectively. We continue to work with our tax advisors and auditors to determine the full impact that the Tax Act as a whole will have on us.

*The application of the tax laws to our business is complicated, and we may not interpret and apply some of the rules and regulations correctly. In addition, we may not make all available elections, which could result in our not being able to fully benefit from available deductions or benefits. Furthermore, the elections, interpretations and applications we do make could be deemed by the IRS to be incorrect and could have adverse impacts on our GAAP earnings and potentially on our REIT status.*

The Internal Revenue Code may change and/or the interpretation of the rules and regulations by the IRS may change. In circumstances where the application of these rules and regulations affecting our business is not clear, we may have to interpret them and their application to us. We seek the advice of outside tax advisors in arriving at these interpretations, but our interpretations may prove to be wrong, which could have adverse consequences.

Our tax payments and dividend distributions, which are intended to meet the REIT distribution requirements, are based in large part on our estimate of taxable income which includes the application and interpretation of a variety of tax rules and regulations. While there are some relief provisions should we incorrectly interpret certain rules and regulations, we may not be able to fully take advantage of these provisions, and this could have an adverse effect on our REIT status. In addition, our GAAP earnings include tax provisions and benefits based on our estimates of taxable income and should our estimates prove to be wrong, we could have to make an adjustment to our tax provisions and this adjustment could be material.

***Our decisions about raising, managing, and distributing our capital may adversely affect our business and financial results. Furthermore, our growth may be limited if we are not able to raise additional capital.***

We are required to distribute at least 90% of our REIT taxable income as dividends to shareholders. Thus, we do not generally have the ability to retain all of the earnings generated by our REIT and, to a large extent, we rely on our ability to raise capital to grow. We may raise capital through the issuance of new shares of our common stock, either through our direct stock purchase and dividend reinvestment plan or through public or private offerings. We may also raise capital by issuing other types of securities, such as preferred stock, convertible or exchangeable debt, or other types of debt securities. As of February 25, 2019, we had approximately 83 million unissued shares of stock authorized for issuance under our charter (although approximately 57 million of these shares are reserved for issuance under our equity compensation plans, dividend reinvestment and stock purchase plan, ATM offering program, and outstanding convertible notes and exchangeable notes). The number of our unissued shares of stock authorized for issuance establishes a limit on the amount of capital we can raise through issuances of shares of stock or securities convertible into, or exchangeable for, shares of stock, unless we seek and receive approval from our shareholders to increase the authorized number of our shares in our charter. Also, certain stock change of ownership tests may limit our ability to raise significant amounts of equity capital or could limit our future use of tax losses to offset income tax obligations if we raise significant amounts of equity capital.

In addition, we may not be able to raise capital at times when we need capital or see opportunities to invest capital. Many of the same factors that could make the pricing for investments in real estate loans and securities attractive, such as the availability of assets from distressed owners who need to liquidate them at reduced prices, and uncertainty about credit risk, housing, and the economy, may limit investors' and lenders' willingness to provide us with additional capital on terms that are favorable to us, if at all. There may be other reasons we are not able to raise capital and, as a result, may not be able to finance growth in our business and in our portfolio of assets. If we are unable to raise capital and expand our business and our portfolio of investments, our growth may be limited, we may have to forgo attractive business and investment opportunities, and our operating expenses may increase significantly relative to our capital base. Alternatively, we may need to raise capital on unfavorable terms, which may lead to greater dilution of existing shareholders, higher interest costs, or higher transaction costs.

To the extent we have capital that is available for investment, we have broad discretion over how to invest that capital and our shareholders and other investors will be relying on the judgment of our management regarding its use. To the extent we invest capital in our business or in portfolio assets, we may not be successful in achieving favorable returns.

***Conducting our business in a manner so that we are exempt from registration under, and in compliance with, the Investment Company Act may reduce our flexibility and could limit our ability to pursue certain opportunities. At the same time, failure to continue to qualify for exemption from the Investment Company Act could adversely affect us.***

Under the Investment Company Act, an investment company is required to register with the SEC and is subject to extensive restrictive and potentially adverse regulations relating to, among other things, operating methods, management, capital structure, dividends, and transactions with affiliates. However, companies primarily engaged in the business of acquiring mortgages and other liens on and interests in real estate are generally exempt from the requirements of the Investment Company Act. We believe that we have conducted our business so that we are not subject to the registration requirements of the Investment Company Act. In order to continue to do so, however, Redwood and each of our subsidiaries must either operate so as to fall outside the definition of an investment company under the Investment Company Act or satisfy its own exclusion under the Investment Company Act. For example, to avoid being defined as an investment company, an entity may limit its ownership or holdings of investment securities to less than 40% of its total assets. In order to satisfy an exclusion from being defined as an investment company, other entities, among other things, maintain at least 55% of their assets in certain qualifying real estate assets (the 55% Requirement) and also maintain an additional 25% of their assets in such qualifying real estate assets or certain other types of real estate-related assets (the 25% Requirement). Rapid changes in the values of assets we own, however, can disrupt prior efforts to conduct our business to meet these requirements.

If Redwood or one of our subsidiaries fell within the definition of an investment company under the Investment Company Act and failed to qualify for an exclusion or exemption, including, for example, if it was required to and failed to meet the 55% Requirement or the 25% Requirement, it could, among other things, be required either (i) to change the manner in which it conducts operations to avoid being required to register as an investment company or (ii) to register as an investment company, either of which could adversely affect us by, among other things, requiring us to dispose of certain assets or to change the structure of our business in ways that we may not believe to be in our best interests. Legislative or regulatory changes relating to the Investment Company Act or which affect our efforts to qualify for exclusions or exemptions, including our ability to comply with the 55% Requirement and the 25% Requirement, could also result in these adverse effects on us.

If we were deemed an unregistered investment company, we could be subject to monetary penalties and injunctive relief and we could be unable to enforce contracts with third parties and third parties could seek to obtain rescission of transactions undertaken during the period we were deemed an unregistered investment company, unless the court found that under the circumstances, enforcement (or denial of rescission) would produce a more equitable result than no enforcement (or grant of rescission) and would not be inconsistent with the Investment Company Act.

***Provisions in our charter and bylaws and provisions of Maryland law may limit a change in control or deter a takeover that might otherwise result in a premium price being paid to our shareholders for their shares in Redwood.***

In order to maintain our status as a REIT, not more than 50% in value of our outstanding capital stock may be owned, actually or constructively, by five or fewer individuals (defined in the Internal Revenue Code to include certain entities). In order to protect us against the risk of losing our status as a REIT due to concentration of ownership among our shareholders and for other reasons, our charter generally prohibits any single shareholder, or any group of affiliated shareholders, from beneficially owning more than 9.8% of the outstanding shares of any class of our stock, unless our Board of Directors waives or modifies this ownership limit. This limitation may have the effect of precluding an acquisition of control of us by a third party without the consent of our Board of Directors. Our Board of Directors has granted a limited number of waivers to institutional investors to own shares in excess of this 9.8% limit, which waivers are subject to certain terms and conditions. Our Board of Directors may amend these existing waivers to permit additional share ownership or may grant waivers to additional shareholders at any time.

Certain other provisions contained in our charter and bylaws and in the Maryland General Corporation Law ("MGCL") may have the effect of discouraging a third party from making an acquisition proposal for us and may therefore inhibit a change in control. For example, our charter includes provisions granting our Board of Directors the authority to issue preferred stock from time to time and to establish the terms, preferences, and rights of the preferred stock without the approval of our shareholders. Provisions in our charter and the MGCL also restrict our shareholders' ability to remove directors and fill vacancies on our Board of Directors and restrict unsolicited share acquisitions. These provisions and others may deter offers to acquire our stock or large blocks of our stock upon terms attractive to our shareholders, thereby limiting the opportunity for shareholders to receive a premium for their shares over then-prevailing market prices.

***The ability to take action against our directors and officers is limited by our charter and bylaws and provisions of Maryland law and we may (or, in some cases, are obligated to) indemnify our current and former directors and officers against certain losses relating to their service to us.***

Our charter limits the liability of our directors and officers to us and to shareholders for pecuniary damages to the fullest extent permitted by Maryland law. In addition, our charter and bylaws together require us to indemnify our officers and directors (and those of our subsidiaries and affiliates) to the maximum extent permitted by Maryland law in the defense of any proceeding to which he or she is made, or threatened to be made, a party because of his or her service to us. In addition, we have entered into, and may in the future enter into, indemnification agreements with our directors and certain of our officers and the directors and certain of the officers of certain of our subsidiaries and affiliates which obligate us to indemnify them against certain losses relating to their service to us and the related costs of defense.

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#### **Other Risks Related to Ownership of Our Common Stock**

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***Investing in our common stock may involve a high degree of risk. Investors in our common stock may experience losses, volatility, and poor liquidity, and we may reduce our dividends in a variety of circumstances.***

An investment in our common stock may involve a high degree of risk, particularly when compared to other types of investments. Risks related to the economy, the financial markets, our industry, our investing activity, our other business activities, our financial results, the amount of dividends we distribute, the manner in which we conduct our business, and the way we have structured our operations could result in a reduction in, or the elimination of, the value of our common stock. The level of risk associated with an investment in our common stock may not be suitable for the risk tolerance of many investors. Investors may experience volatile returns and material losses. In addition, the trading volume of our common stock (i.e., its liquidity) may be insufficient to allow investors to sell their common stock when they want to or at a price they consider reasonable.

Our earnings, cash flows, book value, and dividends can be volatile and difficult to predict. Investors in our common stock should not rely on our estimates, projections, or predictions, or on management's beliefs about future events. In particular, the sustainability of our earnings and our cash flows will depend on numerous factors, including our level of business and investment activity, our access to debt and equity financing, the returns we earn, the amount and timing of credit losses, prepayments, the expense of running our business, and other factors, including the risk factors described herein. As a consequence, although we seek to pay a regular common stock dividend that is sustainable, we may reduce our regular dividend rate, or stop paying dividends, in the future for a variety of reasons. We may not provide public warnings of dividend reductions prior to their occurrence. Although we have paid special dividends in the past, we have not paid a special dividend since 2007 and we may not do so in the future. Changes to the amount of dividends we distribute may result in a reduction in the value of our common stock.

***A limited number of institutional shareholders own a significant percentage of our common stock, which could have adverse consequences to other holders of our common stock.***

As of February 28, 2019, based on filings of Schedules 13D and 13G with the SEC, we believe that five institutional shareholders each owned approximately 5% or more of our outstanding common stock (and we believe one of these shareholders owned approximately 18% of our outstanding common stock) and we believe based on data obtained from other public sources that, overall, institutional shareholders owned, in the aggregate, more than 90% of our outstanding common stock. Furthermore, one or more of these investors or other investors could significantly increase their ownership of our common stock, including through the conversion of outstanding convertible or exchangeable notes into shares of common stock. Significant ownership stakes held by these individual institutions or other investors could have adverse consequences for other shareholders because each of these shareholders will have a significant influence over the outcome of matters submitted to a vote of our shareholders, including the election of our directors and transactions involving a change in control. In addition, should any of these significant shareholders determine to liquidate all or a significant portion of their holdings of our common stock, it could have an adverse effect on the market price of our common stock.

Although, under our charter, shareholders are generally precluded from beneficially owning more than 9.8% of our outstanding common stock, our Board of Directors may amend existing ownership-limitation waivers or grant waivers to other shareholders in the future, in each case in a manner which may allow for increases in the concentration of the ownership of our common stock held by one or more shareholders.

***Future sales of our common stock by us or by our officers and directors may have adverse consequences for investors.***

We may issue additional shares of common stock, or securities convertible into, or exchangeable for, shares of common stock, in public offerings or private placements, and holders of our outstanding convertible notes or exchangeable securities may convert those securities into shares of common stock. In addition, we may issue additional shares of common stock to participants in our direct stock purchase and dividend reinvestment plan and to our directors, officers, and employees under our employee stock purchase plan, our incentive plan, or other similar plans, including upon the exercise of, or in respect of, distributions on equity awards previously granted thereunder. We are not required to offer any such shares to existing shareholders on a preemptive basis. Therefore, it may not be possible for existing shareholders to participate in future share issuances, which may dilute existing shareholders' interests in us. In addition, if market participants buy shares of common stock, or securities convertible into, or exchangeable for, shares of common stock, in issuances by us in the future, it may reduce or eliminate any purchases of our common stock they might otherwise make in the open market, which in turn could have the effect of reducing the volume of shares of our common stock traded in the marketplace, which could have the effect of reducing the market price and liquidity of our common stock.

At February 25, 2019, our directors and executive officers beneficially owned, in the aggregate, approximately 2% of our common stock. Sales of shares of our common stock by these individuals are generally required to be publicly reported and are tracked by many market participants as a factor in making their own investment decisions. As a result, future sales by these individuals could negatively affect the market price of our common stock.

***There is a risk that you may not receive dividend distributions or that dividend distributions may decrease over time. Changes in the amount of dividend distributions we pay, in the tax characterization of dividend distributions we pay, or in the rate at which holders of our common stock are taxed on dividend distributions we pay, may adversely affect the market price of our common stock or may result in holders of our common stock being taxed on dividend distributions at a higher rate than initially expected.***

Our dividend distributions are driven by a variety of factors, including our minimum dividend distribution requirements under the REIT tax laws and our REIT taxable income as calculated for tax purposes pursuant to the Internal Revenue Code. We generally intend to distribute to our shareholders at least 90% of our REIT taxable income, although our reported financial results for GAAP purposes may differ materially from our REIT taxable income.

For 2018, we paid one regular quarterly dividend at a rate of \$0.28 per share and three regular quarterly dividends at a rate of \$0.30 per share. Our ability to continue to pay future dividends in 2019 may be adversely affected by a number of factors, including the risk factors described herein. In addition, to the extent we determine that future dividends would represent a return of capital to investors, rather than the distribution of income, we may determine to discontinue dividend payments until such time that dividends would again represent a distribution of income. Any reduction or elimination of our payment of dividend distributions would not only reduce the amount of dividends you would receive as a holder of our common stock, but could also have the effect of reducing the market price of our common stock.

The rate at which holders of our common stock are taxed on dividends we pay and the characterization of our dividends - as ordinary income, capital gains, or a return of capital - could have an impact on the market price of our common stock. In addition, after we announce the expected characterization of dividend distributions we have paid, the actual characterization (and, therefore, the rate at which holders of our common stock are taxed on the dividend distributions they have received) could vary from our expectation, including due to errors, changes made in the course of preparing our corporate tax returns, or changes made in response to an IRS audit), with the result that holders of our common stock could incur greater income tax liabilities than expected.

***The market price of our common stock could be negatively affected by various factors, including broad market fluctuations.***

The market price of our common stock may be negatively affected by various factors, which change from time to time. Some of these factors are:

- Our actual or anticipated financial condition, performance, and prospects and those of our competitors.
- The market for similar securities issued by other REITs and other competitors of ours.
- Changes in the manner that investors and securities analysts who provide research to the marketplace on us analyze the value of our common stock.
- Changes in recommendations or in estimated financial results published by securities analysts who provide research to the marketplace on us, our competitors, or our industry.
- General economic and financial market conditions, including, among other things, actual and projected interest rates, prepayments, and credit performance and the markets for the types of assets we hold or invest in.
- Proposals to significantly change the manner in which financial markets, financial institutions, and related industries, or financial products are regulated under applicable law, or the enactment of such proposals into law or regulation.
- Other events or circumstances which undermine confidence in the financial markets or otherwise have a broad impact on financial markets, such as the sudden instability or collapse of large financial institutions or other significant corporations (whether due to fraud or other factors), terrorist attacks, natural or man-made disasters, or threatened or actual armed conflicts.

Furthermore, these fluctuations do not always relate directly to the financial performance of the companies whose stock prices may be affected. As a result of these and other factors, investors who own our common stock could experience a decrease in the value of their investment, including decreases unrelated to our financial results or prospects.

#### **ITEM 1B. UNRESOLVED STAFF COMMENTS**

None.

## ITEM 2. PROPERTIES

Our principal executive and administrative office is located in Mill Valley, California and we have additional offices, including at the locations listed below. We do not own any properties and lease the space we utilize for our offices. Additional information on our leases is included in *Note 16* to the Financial Statements within this Annual Report on Form 10-K. The following table presents the locations and remaining lease terms of our primary offices.

### *Executive and Administrative Office Locations and Lease Expirations*

<u>Location</u>	<u>Lease Expiration</u>
One Belvedere Place, Suite 300 Mill Valley, CA 94941	2028
8310 South Valley Highway, Suite 425 Englewood, CO 80112	2021
225 W. Washington St., Suite 1440 Chicago, IL 60606	2020

### ITEM 3. LEGAL PROCEEDINGS

On or about December 23, 2009, the Federal Home Loan Bank of Seattle (the “FHLB-Seattle”) filed a complaint in the Superior Court for the State of Washington (case number 09-2-46348-4 SEA) against Redwood Trust, Inc., our subsidiary, Sequoia Residential Funding, Inc. (“SRF”), Morgan Stanley & Co., and Morgan Stanley Capital I, Inc. (collectively, the “FHLB-Seattle Defendants”), which alleged that the FHLB-Seattle Defendants made false or misleading statements in offering materials for a mortgage pass-through certificate (the “Seattle Certificate”) issued in the Sequoia Mortgage Trust 2005-4 securitization transaction (the “2005-4 RMBS”) and purchased by the FHLB-Seattle. Specifically, the complaint alleged that the alleged misstatements concerned the (1) loan-to-value ratio of mortgage loans and the appraisals of the properties that secured loans supporting the 2005-4 RMBS, (2) occupancy status of the properties, (3) standards used to underwrite the loans, and (4) ratings assigned to the Seattle Certificate. The FHLB-Seattle alleged claims under the Securities Act of Washington (Section 21.20.005, et seq.) and sought to rescind the purchase of the Seattle Certificate and to collect interest on the original purchase price at the statutory interest rate of 8% per annum from the date of original purchase (net of interest received) as well as attorneys’ fees and costs. The Seattle Certificate was issued with an original principal amount of approximately \$133 million, and, at December 31, 2018, approximately \$126 million of principal and \$12 million of interest payments had been made in respect of the Seattle Certificate. As of December 31, 2018, the Seattle Certificate had a remaining outstanding principal amount of approximately \$8 million. The matter was subsequently resolved and the claims were dismissed by the FHLB Seattle as to all the FHLB Seattle Defendants. At the time the Seattle Certificate was issued, Redwood agreed to indemnify the underwriters of the 2005-4 RMBS, which underwriters were named as defendants in the action, for certain losses and expenses they might incur as a result of claims made against them relating to this RMBS, including, without limitation, certain legal expenses. Regardless of the resolution of this litigation, we could incur a loss as a result of these indemnities.

On or about July 15, 2010, The Charles Schwab Corporation (“Schwab”) filed a complaint in the Superior Court for the State of California in San Francisco (case number CGC-10-501610) against SRF and 26 other defendants (collectively, the “Schwab Defendants”), which alleged that the Schwab Defendants made false or misleading statements in offering materials for various residential mortgage-backed securities sold or issued by the Schwab Defendants. Schwab alleged only a claim for negligent misrepresentation under California state law against SRF and sought unspecified damages and attorneys’ fees and costs from SRF. Schwab claimed that SRF made false or misleading statements in offering materials for a mortgage pass-through certificate (the “Schwab Certificate”) issued in the 2005-4 RMBS and purchased by Schwab. Specifically, the complaint alleged that the misstatements for the 2005-4 RMBS concerned the (1) loan-to-value ratio of mortgage loans and the appraisals of the properties that secured loans supporting the 2005-4 RMBS, (2) occupancy status of the properties, (3) standards used to underwrite the loans, and (4) ratings assigned to the Schwab Certificate. The Schwab Certificate was issued with an original principal amount of approximately \$15 million, and, at December 31, 2018, approximately \$14 million of principal and \$1 million of interest payments had been made in respect of the Schwab Certificate. As of December 31, 2018, the Schwab Certificate had a remaining outstanding principal amount of approximately \$1 million. At the time the Schwab Certificate was issued, Redwood agreed to indemnify the underwriters of the 2005-4 RMBS, which underwriters were also named as defendants in the action, for certain losses and expenses they might incur as a result of claims made against them relating to this RMBS, including, without limitation, certain legal expenses. Regardless of the resolution of this litigation, Redwood could incur a loss as a result of these indemnities.

Through certain of our wholly-owned subsidiaries, we have in the past engaged in, and expect to continue to engage in, activities relating to the acquisition and securitization of residential mortgage loans. In addition, certain of our wholly-owned subsidiaries have in the past engaged in activities relating to the acquisition and securitization of debt obligations and other assets through the issuance of collateralized debt obligations (commonly referred to as CDO transactions). Because of this involvement in the securitization and CDO businesses, we could become the subject of litigation relating to these businesses, including additional litigation of the type described above, and we could also become the subject of governmental investigations, enforcement actions, or lawsuits, and governmental authorities could allege that we violated applicable law or regulation in the conduct of our business. As an example, in July 2016 we became aware of a complaint filed by the State of California on April 1, 2016 against Morgan Stanley & Co. and certain of its affiliates alleging, among other things, that there were misleading statements contained in offering materials for 28 different mortgage pass-through certificates purchased by various California investors, including various California public pension systems, from Morgan Stanley and alleging that Morgan Stanley made false or fraudulent claims in connection with the sale of those certificates. Of the 28 mortgage pass-through certificates that were the subject of the complaint, two were Sequoia mortgage pass-through certificates issued in 2004 and two were Sequoia mortgage pass-through certificates issued in 2007. With respect to each of those certificates, our wholly-owned subsidiary, RWT Holdings, Inc., was the sponsor and our wholly-owned subsidiary, Sequoia Residential Funding, Inc., was the depositor. The plaintiffs subsequently withdrew from the litigation their claims based on eight of the 28 mortgage pass-through certificates, including one of the Sequoia mortgage pass-through certificates issued in 2004. At the time these Sequoia mortgage pass-through certificates were issued, Sequoia Residential Funding, Inc. and Redwood Trust agreed to indemnify the underwriters of these certificates for certain losses and expenses they might incur as a result of claims made against them relating to these certificates, including, without limitation, certain legal expenses. Regardless of the outcome of this litigation, we could incur a loss as a result of these indemnities.



In accordance with GAAP, we review the need for any loss contingency reserves and establish reserves when, in the opinion of management, it is probable that a matter would result in a liability and the amount of loss, if any, can be reasonably estimated. Additionally, we record receivables for insurance recoveries relating to litigation-related losses and expenses if and when such amounts are covered by insurance and recovery of such losses or expenses are due. At December 31, 2018, the aggregate amount of loss contingency reserves established in respect of the FHLB-Seattle and Schwab litigation matters described above was \$2 million. We review our litigation matters each quarter to assess these loss contingency reserves and make adjustments in these reserves, upwards or downwards, as appropriate, in accordance with GAAP based on our review.

In the ordinary course of any litigation matter, including certain of the above-referenced matters, we have engaged and may continue to engage in formal or informal settlement communications with the plaintiffs or co-defendants. Settlement communications we have engaged in relating to certain of the above-referenced litigation matters are one of the factors that have resulted in our determination to establish the loss contingency reserves described above. We cannot be certain that any of these matters will be resolved through a settlement prior to trial and we cannot be certain that the resolution of these matters, whether through trial or settlement, will not have a material adverse effect on our financial condition or results of operations in any future period.

Future developments (including resolution of substantive pre-trial motions relating to these matters, receipt of additional information and documents relating to these matters (such as through pre-trial discovery), new or additional settlement communications with plaintiffs relating to these matters, or resolutions of similar claims against other defendants in these matters) could result in our concluding in the future to establish additional loss contingency reserves or to disclose an estimate of reasonably possible losses in excess of our established reserves with respect to these matters. Our actual losses with respect to the above-referenced litigation matters may be materially higher than the aggregate amount of loss contingency reserves we have established in respect of these litigation matters, including in the event that any of these matters proceeds to trial and the plaintiff prevails. Other factors that could result in our concluding to establish additional loss contingency reserves or estimate additional reasonably possible losses, or could result in our actual losses with respect to the above-referenced litigation matters being materially higher than the aggregate amount of loss contingency reserves we have established in respect of these litigation matters include that: there are significant factual and legal issues to be resolved; information obtained or rulings made during the lawsuits could affect the methodology for calculation of the available remedies; and we may have additional obligations pursuant to indemnity agreements, representations and warranties, and other contractual provisions with other parties relating to these litigation matters that could increase our potential losses.

#### **ITEM 4. MINE SAFETY DISCLOSURES**

Not applicable.

## PART II

### ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is listed and traded on the NYSE under the symbol RWT. At February 15, 2019, our common stock was held by approximately 636 holders of record and the total number of beneficial stockholders holding stock through depository companies was approximately 16,462. At February 25, 2019, there were 96,609,827 shares of common stock outstanding.

The cash dividends declared on our common stock for each full quarterly period during 2018 and 2017 were as follows:

	Common Dividends Declared			
	Record Date	Payable Date	Per Share	Dividend Type
<b>Year Ended December 31, 2018</b>				
Fourth Quarter	12/14/2018	12/28/2018	\$ 0.30	Regular
Third Quarter	9/14/2018	9/28/2018	\$ 0.30	Regular
Second Quarter	6/15/2018	6/29/2018	\$ 0.30	Regular
First Quarter	3/15/2018	3/29/2018	\$ 0.28	Regular
<b>Year Ended December 31, 2017</b>				
Fourth Quarter	12/15/2017	12/28/2017	\$ 0.28	Regular
Third Quarter	9/15/2017	9/29/2017	\$ 0.28	Regular
Second Quarter	6/16/2017	6/30/2017	\$ 0.28	Regular
First Quarter	3/16/2017	3/31/2017	\$ 0.28	Regular

All dividend distributions are made with the authorization of the board of directors at its discretion and will depend on such items as our GAAP net income, REIT taxable income, financial condition, maintenance of REIT status, and other factors that the board of directors may deem relevant from time to time. The holders of our common stock share proportionally on a per share basis in all declared dividends on common stock. As reported on our Current Report on Form 8-K on January 28, 2019, for dividend distributions made in 2018, we expect our dividends paid in 2018 to be characterized as 69% ordinary dividend income and 31% long-term capital gain dividend income. None of the dividend distributions made in 2018 are expected to be characterized for federal income tax purposes as return of capital or qualified dividends.

During the year ended December 31, 2018, we did not sell any equity securities that were not registered under the Securities Act of 1933, as amended. In February 2016, our Board of Directors approved an authorization for the repurchase of up to \$100 million of our common stock and also authorized the repurchase of outstanding debt securities, including convertible and exchangeable debt. This authorization replaced all previous share repurchase plans and has no expiration date. At December 31, 2017, approximately \$77 million of this current authorization remained available for the repurchase of shares of our common stock. During January 2018, we repurchased 1,040,829 shares of our common stock pursuant to this authorization for \$16 million.

In February 2018, our Board of Directors approved an authorization for the repurchase of an additional \$39 million of our common stock, increasing the total amount authorized for repurchases of common stock to \$100 million, and also authorized the repurchase of outstanding debt securities, including convertible and exchangeable debt. As noted above, this authorization increased the previous share repurchase authorization approved in February 2016 and has no expiration date. This repurchase authorization does not obligate us to acquire any specific number of shares or securities. Under this authorization, shares or securities may be repurchased in privately negotiated and/or open market transactions, including under plans complying with Rule 10b5-1 under the Securities Exchange Act of 1934, as amended. At December 31, 2018, \$100 million of this current total authorization remained available for repurchases of shares of our common stock. Like other investments we may make, any repurchases of our common stock or debt securities under this authorization would reduce our available capital described above.

The following table contains information on the shares of our common stock that we purchased or otherwise acquired during the three months ended December 31, 2018.

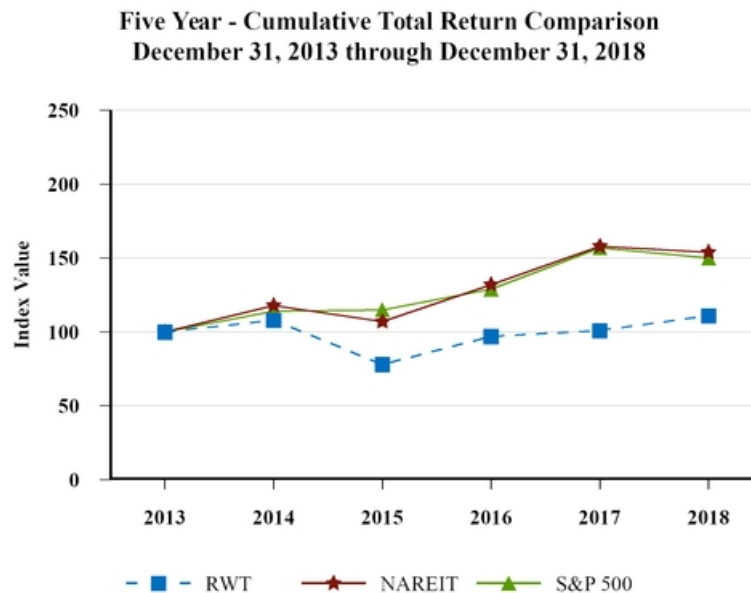
<b>(In Thousands, except Per Share Data)</b>	<b>Total Number of Shares Purchased or Acquired</b>	<b>Average Price per Share Paid</b>	<b>Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs</b>	<b>Maximum Number (or approximate dollar value) of Shares that May Yet be Purchased under the Plans or Programs</b>
October 1, 2018 - October 31, 2018	— <sup>(1)</sup>	\$ 16.24	—	\$ —
November 1, 2018 - November 30, 2018	—	\$ —	—	\$ —
December 1, 2018 - December 31, 2018	—	\$ —	—	\$ 100,000
Total	—	\$ —	—	

(1) Represents fewer than 1000 shares reacquired to satisfy tax withholding requirements related to the vesting of restricted shares.

Information with respect to compensation plans under which equity securities of the registrant are authorized for issuance is set forth in Part II, Item 12 of this Annual Report on Form 10-K.

## Performance Graph

The following graph presents a cumulative total return comparison of our common stock, over the last five years, to the S&P Composite-500 Stock Index and the National Association of Real Estate Investment Trusts, Inc. ("NAREIT") Mortgage REIT index. The total returns reflect stock price appreciation and the reinvestment of dividends for our common stock and for each of the comparative indices, assuming that \$100 was invested in each on December 31, 2013. The information has been obtained from sources believed to be reliable; but neither its accuracy nor its completeness is guaranteed. The total return performance shown on the graph is not necessarily indicative of future performance of our common stock.



	2013	2014	2015	2016	2017	2018
Redwood Trust, Inc.	100	108	78	97	101	111
FTSE NAREIT Mortgage REIT Index	100	118	107	132	158	154
S&P Composite-500 Index	100	114	115	129	157	150

## ITEM 6. SELECTED FINANCIAL DATA

The following selected financial data are qualified in their entirety by, and should be read in conjunction with, the more detailed information contained in the Consolidated Financial Statements and Notes thereto and Management's Discussion and Analysis of Financial Condition and Results of Operations included elsewhere in this Annual Report on Form 10-K and in our Annual Reports on Form 10-K as of and for each of the years ended December 31, 2017, 2016, 2015, and 2014. Certain amounts for prior periods have been reclassified to conform to the 2018 presentation.

(In Thousands, except Share Data)	2018	2017	2016	2015	2014
<b>Selected Statement of Operations Data:</b>					
Interest income	\$ 378,717	\$ 248,057	\$ 246,355	\$ 259,432	\$ 242,070
Interest expense	(239,039)	(108,816)	(88,528)	(95,883)	(87,463)
<b>Net Interest Income</b>	<b>139,678</b>	<b>139,241</b>	<b>157,827</b>	<b>163,549</b>	<b>154,607</b>
Reversal of (provision for) loan losses	—	—	7,102	355	(961)
<b>Net Interest Income after Provision</b>	<b>139,678</b>	<b>139,241</b>	<b>164,929</b>	<b>163,904</b>	<b>153,646</b>
<b>Non-interest Income</b>					
Mortgage banking activities, net	59,566	53,908	38,691	10,972	34,994
Investment fair value changes, net	(25,689)	10,374	(28,574)	(21,357)	(10,202)
Other income, net	12,874	12,436	20,691	(730)	(2,480)
Realized gains, net	27,041	13,355	28,009	36,369	15,478
Total non-interest income, net	73,792	90,073	58,817	25,254	37,790
Operating expenses	(82,782)	(77,156)	(88,786)	(97,416)	(90,123)
<b>Net Income before Provision for Income Taxes</b>	<b>130,688</b>	<b>152,158</b>	<b>134,960</b>	<b>91,742</b>	<b>101,313</b>
(Provision for) benefit from income taxes	(11,088)	(11,752)	(3,708)	10,346	(744)
<b>Net Income</b>	<b>\$ 119,600</b>	<b>\$ 140,406</b>	<b>\$ 131,252</b>	<b>\$ 102,088</b>	<b>\$ 100,569</b>
Average common shares – basic	78,724,912	76,792,957	76,747,047	82,945,103	82,837,369
Earnings per share – basic	\$ 1.47	\$ 1.78	\$ 1.66	\$ 1.20	\$ 1.18
Average common shares – diluted <sup>(1)</sup>	110,027,770	101,975,008	97,909,090	84,518,395	85,098,579
Earnings per share – diluted	\$ 1.34	\$ 1.60	\$ 1.54	\$ 1.18	\$ 1.15
Regular dividends declared per common share	\$ 1.18	\$ 1.12	\$ 1.12	\$ 1.12	\$ 1.12
<b>Selected Balance Sheet Data:</b>					
Total assets	\$ 11,937,406	\$ 7,039,822	\$ 5,483,477	\$ 6,220,047	\$ 5,902,916
Short-term debt	\$ 2,400,279	\$ 1,938,682	\$ 791,539	\$ 1,855,003	\$ 1,793,825
Asset-backed securities issued – Resecuritization, net <sup>(2)</sup>	\$ —	\$ —	\$ —	\$ —	\$ 44,909
Asset-backed securities issued, net – Commercial	\$ —	\$ —	\$ —	\$ 52,595	\$ 81,760
Asset-backed securities issued, net – Sequoia	\$ 2,397,250	\$ 1,164,585	\$ 773,462	\$ 996,820	\$ 1,416,090
Asset-backed securities issued, net – Freddie Mac SLST	\$ 993,748	\$ —	\$ —	\$ —	\$ —
Asset-backed securities issued, net – Freddie Mac K-Series	\$ 2,019,075	\$ —	\$ —	\$ —	\$ —
Long-term debt, net <sup>(2)</sup>	\$ 2,572,158	\$ 2,575,023	\$ 2,620,683	\$ 2,027,737	\$ 1,180,877
Total liabilities	\$ 10,588,612	\$ 5,827,535	\$ 4,334,049	\$ 5,073,782	\$ 4,646,775
Total stockholders' equity	\$ 1,348,794	\$ 1,212,287	\$ 1,149,428	\$ 1,146,265	\$ 1,256,141
Number of common shares outstanding	84,884,344	76,599,972	76,834,663	78,162,765	83,443,141
Book value per common share	\$ 15.89	\$ 15.83	\$ 14.96	\$ 14.67	\$ 15.05
<b>Other Selected Data:</b>					
Average assets	\$ 8,190,681	\$ 5,918,233	\$ 5,893,998	\$ 6,015,420	\$ 5,356,839
Average debt and ABS issued outstanding	\$ 6,751,746	\$ 4,544,694	\$ 4,617,956	\$ 4,505,079	\$ 3,871,404
Average stockholders' equity	\$ 1,280,287	\$ 1,181,056	\$ 1,112,313	\$ 1,240,345	\$ 1,250,627
Net income/average stockholders' equity	9.3%	11.9%	11.8%	8.2%	8.0%

(1) Diluted average common shares for 2018, 2017, and 2016 include certain convertible notes that were determined to be dilutive for those years.

(2) At December 31, 2018, 2017, 2016, 2015, and 2014, Asset-backed securities issued, net included \$0, \$0, \$0, \$542, and \$2,360, respectively, of deferred debt issuance costs, and long-term debt, net included \$11,411, \$10,240, \$7,081, \$10,438, and \$13,690, respectively, of deferred debt issuance costs.

## Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations

### INTRODUCTION

Management’s Discussion and Analysis of Financial Condition and Results of Operations (“MD&A”) is intended to provide a reader of our financial statements with a narrative from the perspective of our management on our financial condition, results of operations, liquidity and certain other factors that may affect our future results. Our MD&A is presented in six main sections:

- Overview
- Results of Operations
- Liquidity and Capital Resources
- Off Balance Sheet Arrangements and Contractual Obligations
- Critical Accounting Policies and Estimates
- New Accounting Standards

Our MD&A should be read in conjunction with the Consolidated Financial Statements and related Notes included in Part II, Item 8, Financial Statements and Supplementary Data of this Annual Report on Form 10-K. References herein to “Redwood,” the “company,” “we,” “us,” and “our” include Redwood Trust, Inc. and its consolidated subsidiaries, unless the context otherwise requires. The discussion in this MD&A contains forward-looking statements that involve substantial risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of various factors, such as those discussed in the Cautionary Statement in Part I, Item 1, *Business* and in Part I, Item 1A, *Risk Factors* of this Annual Report on Form 10-K.

### OVERVIEW

#### Our Business

Redwood Trust, Inc., together with its subsidiaries, is a specialty finance company focused on making credit-sensitive investments in single-family residential and multifamily mortgages and related assets and engaging in mortgage banking activities. Our goal is to provide attractive returns to shareholders through a stable and growing stream of earnings and dividends, as well as through capital appreciation. During 2018, we operated our business in two segments: Investment Portfolio and Mortgage Banking. Our segments are based on our organizational and management structure, which aligns with how our results are monitored and performance is assessed.

Our primary sources of income are net interest income from our investment portfolio and non-interest income from our mortgage banking activities. Net interest income consists of the interest income we earn on investments less the interest expense we incur on borrowed funds and other liabilities. Income from mortgage banking activities is generated through the acquisition of loans and their subsequent sale or securitization. Redwood Trust, Inc. has elected to be taxed as a real estate investment trust (“REIT”). We generally refer, collectively, to Redwood Trust, Inc. and those of its subsidiaries that are not subject to subsidiary-level corporate income tax as “the REIT” or “our REIT.” We generally refer to subsidiaries of Redwood Trust, Inc. that are subject to subsidiary-level corporate income tax as “our operating subsidiaries” or “our taxable REIT subsidiaries” or “TRS.”

For additional information on our business, refer to Part I, Item 1, *Business* of this Annual Report on Form 10-K.

## Business Update

The fourth quarter of 2018 capped a transformational year for Redwood Trust. We recast our strategic vision with an emphasis on becoming the premier specialty finance lender to a changing housing market. That entailed a fresh look at the evolving needs of today's homebuyers - both consumers and investors alike. Our approach focused on better leveraging our reputation, residential credit acumen, deep industry relationships, and financial structuring expertise, in order to expand our investing activity. Having just capped off a record year of capital deployment in 2018, we've taken the early steps towards realizing this vision and are excited about the opportunities we see ahead.

The fourth quarter was a challenging one for industry participants, with market volatility reaching peak levels towards the end of 2018. This pressured valuations across both fixed income and equity markets. Our year-end GAAP book valuation was impacted, but the decline was relatively modest, reflecting the conservatism of our leverage and the overall buoyancy of our credit-focused investment portfolio. Credit spreads have generally improved since early January, helping to retrace a good portion of last quarter's book value reduction. Most importantly, the key driver of our long-term earnings and ability to pay attractive levels of dividends - namely, the quality of our cash-flows - remained very strong. Dividends per share for 2018 exceeded the prior year by 5.4%.

At the center of our progress is continued strong momentum from our investment portfolio. We deployed \$235 million of capital during the fourth quarter, bringing the total for 2018 to just over \$800 million. Fundamental performance in our portfolio continues to reflect the strength of our underwriting and production quality. The breadth of our initiatives should enable us to continue sourcing investments that can drive net interest margins higher. The majority of our portfolio's activity during the fourth quarter remained in line with our strategy - larger investments in cash flows not easily sourced by our competitors.

Additionally, our relationship with 5 Arches, LLC, an originator of business purpose real estate loans, is a key contributor to our strategic vision. In January of 2019, we announced our intention to complete the full acquisition of 5 Arches, with a closing date toward the end of the first quarter of 2019, subject to customary closing conditions. As 5 Arches becomes a wholly owned subsidiary, its platform will provide us with a direct origination capability in the business-purpose lending market - namely, loans to investors in residential real estate.

Turning to our traditional residential mortgage banking operations, we continue to manage cyclical headwinds that we expect to pressure industry volumes throughout 2019, as they have over the past few quarters. Notwithstanding the recent decline in benchmark rates - 30-year mortgage rates fell below 4.5% for the first time in almost a year - overall home purchase activity has begun to level off. While current mortgage rates are lower by historical standards, they still remain above the rate enjoyed by most existing borrowers, effectively shutting off meaningful refinance activity. Amidst this challenging origination environment, we continue to leverage our platform's strengths to drive efficiencies and returns. One of our goals in 2019 is to continue improving workflow efficiencies and capital turnover. By increasing the speed with which we buy and sell loans, we reduce market risk and can operate the business more efficiently without compromising on the quality or service we provide to our loan sellers. Additionally, we expect to continue expanding how we distribute loans in our business. To complement our well-established securitization and bulk whole-loan distribution channels, we have begun to identify new sources of demand for residential credit that can further bolster our conduit liquidity.

In 2019, our emphasis remains on growing durable investment cash-flows that support our attractive levels of sustainable dividends. Our integrated businesses are squarely focused in residential housing credit, an area where we believe we have more experience than any of our modern-day competitors.

## 2018 Financial Overview

This section includes an overview of our 2018 financial results. A detailed discussion of our results of operations is presented in the next section of this MD&A. The following table presents selected financial highlights from 2018 and 2017.

**Table 1 – Key Earnings and Return Metrics**

(In Thousands, except per Share Data)	Years Ended December 31,	
	2018	2017
Net income	\$ 119,600	\$ 140,406
Net income per diluted common share (EPS)	\$ 1.34	\$ 1.60
GAAP return on equity (ROE)	9.3 %	11.9 %
Book value per share	\$ 15.89	\$ 15.83
Economic return on book value <sup>(1)</sup>	7.8 %	13.3 %
REIT taxable income per share	\$ 1.38	\$ 1.17
Dividends per share	\$ 1.18	\$ 1.12

(1) Economic return on book value is based on the periodic change in GAAP book value per common share plus dividends declared per common share during the period.

In 2018, increased returns from higher capital deployment and portfolio optimization, as well as strong mortgage banking results, were dampened by negative market valuation changes during the fourth quarter of the year. These market valuation changes were primarily driven by credit spread widening on our portfolio investments, which we estimate impacted net income by more than \$30 million in the fourth quarter. Inclusive of these valuation changes, we generated a return on equity of 9.3% for 2018. REIT taxable income, which excludes most market valuation changes, increased to \$1.38 per share, providing strong coverage of the \$1.18 per share of dividends we paid in 2018. Despite recent volatility in credit spreads, cash flows and credit fundamentals in our investment portfolio remain strong and we have observed credit spread tightening in the first two months of 2019, which positively impacted the value of our investment portfolio and book value per share.

**Table 1.1 – Key Operational Metrics**

(In Thousands)	Years Ended December 31,	
	2018	2017
Capital Deployed	\$ 810,203	\$ 511,125
Residential Loans Purchased	\$ 7,133,558	\$ 5,741,651
Residential Loans Sold	\$ 5,426,304	\$ 3,982,683

During 2018, we raised \$342 million of capital, including \$142 million of equity capital and \$200 million of convertible debt. We used the proceeds from these issuances along with proceeds from portfolio optimization to deploy \$810 million of capital in 2018, a significant increase from 2017. While much of this capital was deployed into our traditional asset classes, we also deployed a meaningful amount into new asset classes, including multifamily assets, business purpose residential loans and re-performing loans, further diversifying our exposure to housing credit.

In our mortgage banking business, loan purchases in 2018 increased by over 24%, driven by higher volumes of Redwood Choice loans, which accounted for 32% of our purchase volume in 2018, compared to 22% in 2017. In 2018, through our Sequoia platform, we completed eight Select securitizations and four Choice securitizations, which were supplemented by whole loans sales, as we continued to foster diversified distribution channels.



### ***Book Value per Share***

The following table sets forth the changes in our book value per share for the year ended December 31, 2018.

**Table 2 – Changes in Book Value per Share**

<b>(In Dollars, per share basis)</b>		<b>Year Ended December 31, 2018</b>
Beginning book value per share	\$	15.83
Net income		1.34
Changes in unrealized gains on securities, net from:		
Realized gains recognized in net income		(0.23 )
Amortization income recognized in net income		(0.13 )
Mark-to-market adjustments, net		0.09
Total change in unrealized gains on securities, net		(0.27 )
Dividends		(1.18 )
Issuance of common stock		0.01
Share repurchases		0.01
Equity compensation, net		0.01
Changes in unrealized losses on derivatives hedging long-term debt		0.11
Other, net		0.03
<b>Ending Book Value per Share</b>	<b>\$</b>	<b>15.89</b>

Our GAAP book value per share increased \$0.06 per share to \$15.89 per share during 2018. This increase was driven primarily by earnings exceeding our dividend payments and an increase in the value of derivatives hedging our long-term debt.

Unrealized gains on our available-for-sale securities decreased \$0.27 per share during 2018. This decrease primarily resulted from \$0.23 per share of previously unrealized net gains that were realized as income from the sale of securities, as well as \$0.13 per share of discount accretion income recognized in earnings from the appreciation in the amortized cost basis of our available-for-sale securities. These decreases were offset by positive mark-to-market adjustments on available-for-sale securities primarily resulting from overall credit spread tightening on these investments during 2018.

Higher benchmark interest rates during 2018 resulted in a \$0.11 per share increase to book value due to a decrease in unrealized losses on the derivatives hedging a portion of our long-term debt. At December 31, 2018, the cumulative unrealized loss on these derivatives, which is included in our GAAP book value per share, was \$0.40 per share.

## Capital Allocation Summary

This section provides an overview of our capital position and how it was allocated at the end of 2018. A detailed discussion of our liquidity and capital resources is provided in the Liquidity and Capital Resources section of this MD&A that follows.

We use a combination of equity and corporate debt (which we collectively refer to as “capital”) to fund our business. Our total capital was \$2.12 billion at December 31, 2018, and included \$1.35 billion of equity capital and \$0.77 billion of convertible notes and other long-term debt, including \$201 million of exchangeable debt due in 2019, \$245 million of convertible debt due in 2023, \$200 million of convertible debt due in 2024, and \$140 million of trust-preferred securities due in 2037.

We also utilize various forms of collateralized short-term and long-term debt to finance certain investments and to warehouse some of our inventory of residential loans held-for-sale. We do not consider this collateralized debt as “capital” and, therefore, it is presented separately from allocated capital in the table below. The following table presents how our capital was allocated between business segments and investment types at December 31, 2018.

**Table 3 – Capital Allocation Summary**

**At December 31, 2018**

<b>(Dollars in Thousands)</b>	<b>Fair Value</b>	<b>Collateralized Debt</b>	<b>Allocated Capital</b>	<b>% of Total Capital</b>
<b>Investment portfolio</b>				
Residential loans <sup>(1)</sup>	\$ 2,426,891	\$ (1,999,999)	\$ 426,892	20 %
<b>Securities portfolio</b>				
Third-party residential securities	610,002	(265,529)	344,473	16 %
Residential re-performing loan securities <sup>(2)</sup>	350,909	(183,795)	167,114	8 %
Sequoia residential securities <sup>(3)</sup>	485,797	(179,909)	305,888	14 %
Multifamily securities <sup>(4)</sup>	554,602	(359,657)	194,945	9 %
<b>Total securities portfolio</b>	<b>2,001,309</b>	<b>(988,890)</b>	<b>1,012,419</b>	<b>48 %</b>
Business purpose residential loans	112,798	(66,327)	46,471	2 %
Other investments	438,518	(262,740)	175,778	8 %
Other assets/(other liabilities)	199,933	(86,481)	113,452	5 %
Cash and liquidity capital			175,560	N/A
<b>Total investment portfolio</b>	<b>\$ 5,179,449</b>	<b>\$ (3,404,437)</b>	<b>1,950,572</b>	<b>92 %</b>
<b>Mortgage banking</b>			170,000	8 %
<b>Total</b>			<b>\$ 2,120,572</b>	<b>100 %</b>

(1) Includes \$43 million of FHLB stock.

(2) Re-performing residential loan securities presented above represent third-party securities collateralized by seasoned re-performing, and to a lesser extent, non-performing residential loans and includes \$229 million of subordinate investments in the Freddie Mac SLST securitization. For GAAP purposes we consolidated \$1.22 billion of residential loans and \$994 million of non-recourse ABS debt associated with these securities.

(3) Sequoia residential securities presented above includes \$194 million of securities retained from our consolidated Sequoia Choice securitizations. For GAAP purposes we consolidated \$2.08 billion of residential loans and \$1.89 billion of non-recourse ABS debt associated with these retained securities.

(4) Multifamily securities presented above includes \$126 million of subordinate investments in the Freddie Mac K-Series securitizations. For GAAP purposes we consolidated \$2.14 billion of multifamily loans and \$2.02 billion of non-recourse ABS debt associated with these securities.

Of our \$2.12 billion of total capital at December 31, 2018, \$1.95 billion (or 92%) was allocated to our investments with the remaining \$170 million (or 8%) allocated to our mortgage banking activities. During the fourth quarter, we decreased the capital allocated to our mortgage banking operations to \$170 million from \$210 million and may reduce it further in 2019 as we leverage operational changes that will allow us to manage our mortgage banking business with less capital and respond to market conditions.

As of December 31, 2018, our cash and liquidity capital included \$85 million of capital available for investment. Additionally, in January 2019, we raised \$177 million of capital in an underwritten public offering of our common stock.

## RESULTS OF OPERATIONS

Within this *Results of Operations* section, we provide commentary that compares results year-over-year for 2018, 2017, and 2016. Most tables include "changes" columns that show the amounts by which the year's results are greater or less than the results from the prior year. Unless otherwise specified, references in this section to increases or decreases in 2018 refer to the change in results from 2017 to 2018, and increases or decreases in 2017 refer to the change in results from 2016 to 2017.

The following table presents the components of our net income for the years ended December 31, 2018, 2017, and 2016.

**Table 4 – Net Income**

(In Thousands, except per Share Data)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
<b>Net Interest Income</b>	\$ 139,678	\$ 139,241	\$ 157,827	\$ 437	\$ (18,586)
Reversal of provision for loan losses	—	—	7,102	—	(7,102)
<b>Net Interest Income After Provision</b>	139,678	139,241	164,929	437	(25,688)
<b>Non-interest Income</b>					
Mortgage banking activities, net	59,566	53,908	38,691	5,658	15,217
Investment fair value changes, net	(25,689)	10,374	(28,574)	(36,063)	38,948
Other income, net	12,874	12,436	20,691	438	(8,255)
Realized gains, net	27,041	13,355	28,009	13,686	(14,654)
Total non-interest income, net	73,792	90,073	58,817	(16,281)	31,256
Operating expenses	(82,782)	(77,156)	(88,786)	(5,626)	11,630
<b>Net income before income taxes</b>	130,688	152,158	134,960	(21,470)	17,198
Provision for income taxes	(11,088)	(11,752)	(3,708)	664	(8,044)
<b>Net Income</b>	<u>\$ 119,600</u>	<u>\$ 140,406</u>	<u>\$ 131,252</u>	<u>\$ (20,806)</u>	<u>\$ 9,154</u>

### *Net Interest Income*

Net interest income in 2018 was consistent with 2017, as higher interest income from net capital deployment and higher average yields in 2018 was offset by higher interest expense on short-term floating rate debt facilities and FHLB borrowings from rising benchmark interest rates.

We utilize hedges to manage interest rate risk in our investment portfolio and the net interest expense from these instruments is a component of our Investment fair value changes line item, which is discussed below. Net hedge interest expense associated with portfolio hedges decreased in 2018 and on a combined basis, net interest income plus net interest expense on hedges increased by \$15 million in 2018, compared to 2017.

The \$19 million decrease in net interest income in 2017 was primarily due to the sale of our commercial mezzanine loans during 2016, which resulted in a \$26 million reduction in net interest income. This decline was partially offset by higher net interest income from our residential investments as a result of capital redeployment during late 2016 and 2017.

Additional detail on changes in net interest income is provided in the “*Net Interest Income*” section that follows.

### *Provision for Loan Losses*

The reversal of provision for loan losses in 2016 was related to our commercial mezzanine loans. Prior to their sale in 2016, the commercial loans were reclassified to held-for-sale status, at which point the allowance for loan losses was reversed and no longer maintained for these loans.

### *Mortgage Banking Activities, Net*

Income from mortgage banking activities, net includes results from our residential jumbo mortgage banking operations and, prior to the second quarter of 2016, results from our residential conforming and commercial mortgage banking operations. The \$6 million increase in 2018 was predominantly due to an increase in loan purchase volume in 2018, relative to 2017, on similar gross margins.

The \$15 million increase in 2017 was predominantly due to higher jumbo loan purchase volume in 2017, relative to 2016, on similar gross margins.

A more detailed analysis of the changes in this line item is included in the “*Results of Operations by Segment*” section that follows.

#### *Investment Fair Value Changes, Net*

Investment fair value changes, net, is primarily comprised of the change in fair values of our residential loans held-for-investment and financed with FHLB borrowings, our business purpose residential loans held-for-investment, our investment securities classified as trading, and interest rate hedges associated with each of these investments.

During 2018, the negative investment fair value changes primarily resulted from widening credit spreads during the fourth quarter, which impacted both our residential securities and our residential loans held-for-investment.

During 2017, the positive investment fair value changes primarily resulted from tightening credit spreads on our trading securities during the year. This increase was partially offset by net decreases in the fair value of our residential loans held-for-investment and their associated hedges, primarily resulting from principal paydowns and hedging costs.

Additional detail on our investment fair value changes is included in the Investment Portfolio portion of the “*Results of Operations by Segment*” section that follows.

#### *Other Income, Net*

Other income, net was primarily comprised of MSR income and income from our residential loan risk-sharing arrangements with Fannie Mae and Freddie Mac. Other income in 2018 was consistent with 2017, while the \$8 million decrease in other income in 2017 primarily resulted from a decline in the average balance of MSRs during 2017, as we sold the remaining portion of our conforming MSRs.

#### *Realized Gains, Net*

For 2018, we realized gains of \$27 million, primarily from the sale of \$144 million of AFS securities. For 2017, we realized gains of \$13 million, primarily from the sale of \$90 million of AFS securities. For 2016, we realized gains of \$28 million, which included \$23 million from the sale of \$253 million of AFS securities and \$5 million from the sale of \$218 million of commercial mezzanine loans.

Additional detail on realized gains is included in the Investment Portfolio portion of the “*Results of Operations by Segment*” section that follows.

#### *Operating Expenses*

The increase in operating expenses in 2018 primarily resulted from higher loan acquisition costs due to higher loan purchase volume in 2018, as well as higher expenses associated with implementing new investment initiatives, including higher personnel costs and legal fees. These increases were partially offset by lower variable compensation expense commensurate with a decline in net income in 2018.

The decrease in operating expenses in 2017 was primarily due to the restructuring of our residential conforming and commercial mortgage banking operations during the first quarter of 2016, which resulted in restructuring costs of \$10 million and a lower run-rate of expenses subsequent to the restructuring.

#### *Provision for Income Taxes*

Our provision for income taxes is almost entirely related to activity at our taxable REIT subsidiaries, which primarily includes our mortgage banking activities, MSR investments, as well as certain other investment and hedging activities associated with these investments.

The decrease in the provision for income taxes for 2018 resulted primarily from a lower corporate tax rate, and lower investment portfolio income at our TRS during the year.

The increase in the provision for income taxes in 2017 resulted primarily from higher mortgage banking income in 2017, compared to 2016. This increase was offset by a tax benefit of \$8 million from the reduction of our net federal deferred tax liabilities as a result of the Tax Cuts and Jobs Act of 2017 (the “Tax Act”) that was enacted in December 2017. Additionally, 2016 benefited from the release of a valuation allowance recorded against our deferred tax assets during that year.

## Net Interest Income

The following tables present the components of net interest income for the years ended December 31, 2018, 2017, and 2016.

Table 5 – Net Interest Income

(Dollars in Thousands)	Years Ended December 31,								
	2018			2017			2016		
	Interest Income/ (Expense)	Average Balance (1)	Yield	Interest Income/ (Expense)	Average Balance (1)	Yield	Interest Income/ (Expense)	Average Balance (1)	Yield
<b>Interest Income</b>									
Residential loans, held-for-sale	\$ 51,330	\$ 1,129,810	4.5 %	\$ 38,854	\$ 939,273	4.1 %	\$ 33,120	\$ 908,353	3.6 %
Residential loans - HFI at Redwood (2)	94,361	2,345,219	4.0 %	90,970	2,316,375	3.9 %	85,147	2,193,619	3.9 %
Residential loans - HFI at Legacy Sequoia (2)	20,029	577,175	3.5 %	19,405	700,746	2.8 %	19,537	882,079	2.2 %
Residential loans - HFI at Sequoia Choice (2)	69,645	1,452,784	4.8 %	5,133	109,463	4.7 %	—	—	— %
Residential loans - HFI at Freddie Mac SLST (2)	4,453	109,231	4.1 %	—	—	— %	—	—	— %
Commercial loans	—	—	— %	345	1,065	N/A	30,496	258,041	11.8 %
Business purpose residential loans	4,333	50,962	8.5 %	—	—	— %	—	—	— %
Multifamily loans - HFI at Freddie Mac K-Series	21,322	532,020	4.0 %	—	—	— %	—	—	— %
Trading securities	71,350	1,016,613	7.0 %	47,419	713,945	6.6 %	22,484	299,912	7.5 %
Available-for-sale securities	33,728	302,134	11.2 %	43,384	430,395	10.1 %	54,389	530,357	10.3 %
Other interest income	8,166	211,651	3.9 %	2,547	224,545	1.1 %	1,182	294,830	0.4 %
<b>Total interest income</b>	<b>378,717</b>	<b>7,727,599</b>	<b>4.9 %</b>	<b>248,057</b>	<b>5,435,807</b>	<b>4.6 %</b>	<b>246,355</b>	<b>5,367,191</b>	<b>4.6 %</b>
<b>Interest Expense</b>									
Short-term debt facilities	(52,832)	1,513,497	(3.5)%	(28,015)	1,075,430	(2.6)%	(22,287)	1,089,352	(2.0)%
Short-term debt - servicer advance financing	(971)	17,271	(5.6)%	—	—	— %	—	—	— %
Short-term debt - convertible notes, net	(5,114)	97,035	(5.3)%	(8,836)	182,551	(4.8)%	—	—	— %
ABS issued - Redwood	—	—	— %	—	—	— %	(1,560)	21,159	(7.4)%
ABS issued - Legacy Sequoia (2)	(16,519)	567,908	(2.9)%	(14,833)	684,733	(2.2)%	(13,175)	861,020	(1.5)%
ABS issued - Sequoia Choice (2)	(59,769)	1,317,645	(4.5)%	(4,275)	97,158	(4.4)%	—	—	— %
ABS issued - Freddie Mac SLST (2)	(3,156)	89,172	(3.5)%	—	—	— %	—	—	— %
ABS issued - Freddie Mac K-Series	(19,985)	497,524	(4.0)%	—	—	— %	—	—	— %
Long-term debt - FHLBC	(41,360)	1,999,999	(2.1)%	(21,769)	1,999,999	(1.1)%	(11,579)	1,980,971	(0.6)%
Long-term debt - other	(39,333)	651,696	(6.0)%	(31,088)	504,822	(6.2)%	(39,927)	665,453	(6.0)%
<b>Total interest expense</b>	<b>(239,039)</b>	<b>6,751,747</b>	<b>(3.5)%</b>	<b>(108,816)</b>	<b>4,544,693</b>	<b>(2.4)%</b>	<b>(88,528)</b>	<b>4,617,955</b>	<b>(1.9)%</b>
<b>Net Interest Income</b>	<b>\$ 139,678</b>			<b>\$ 139,241</b>			<b>\$ 157,827</b>		

- (1) Average balances for residential loans held-for-sale, residential loans held-for-investment, business purpose residential loans, and trading securities are calculated based upon carrying values, which represent estimated fair values. Average balances for available-for-sale securities and debt are calculated based upon amortized historical cost, except for ABS issued, which is based upon fair value.
- (2) Interest income from residential loans held-for-investment ("HFI") at Redwood exclude loans HFI at consolidated Sequoia or Freddie Mac SLST entities. Interest income from residential loans - HFI at Legacy Sequoia and the interest expense from ABS issued - Legacy Sequoia represent activity from our consolidated Legacy Sequoia entities. Interest income from residential loans - HFI at Sequoia Choice and the interest expense from ABS issued - Sequoia Choice represent activity from our consolidated Sequoia Choice entities. Interest income from residential loans - HFI at Freddie Mac SLST and the interest expense from ABS issued - Freddie Mac SLST represent activity from our consolidated Freddie Mac SLST entity.

The following table details how net interest income changed on a consolidated basis as a result of changes in average investment balances (“volume”) and changes in interest yields (“rate”).

*Table 6 – Net Interest Income - Volume and Rate Changes*

(In Thousands)	Change in Net Interest Income For the Years Ended December 31,					
	2018			2017		
	Volume	Rate	Total	Volume	Rate	Total
<b>Net Interest Income for the Beginning of the Year</b>			\$ 139,241			\$ 157,827
<b>Impact of Changes in Interest Income</b>						
Residential loans - HFS	\$ 7,882	\$ 4,594	12,476	\$ 1,127	\$ 4,607	5,734
Residential loans - HFI at Redwood	1,133	2,258	3,391	4,765	1,058	5,823
Residential loans - HFI at Legacy Sequoia	(3,422)	4,046	624	(4,016)	3,884	(132)
Residential loans - HFI at Sequoia Choice	62,992	1,520	64,512	5,133	—	5,133
Residential loans - HFI at Freddie Mac SLST	4,453	—	4,453	—	—	—
Commercial loans	(345)	—	(345)	(30,370)	219	(30,151)
Business purpose residential loans	4,333	—	4,333	—	—	—
Multifamily loans - HFI at Freddie Mac K-Series	21,322	—	21,322	—	—	—
Trading securities	20,103	3,828	23,931	31,039	(6,104)	24,935
Available-for-sale securities	(12,929)	3,273	(9,656)	(10,251)	(754)	(11,005)
Other Interest Income	(146)	5,765	5,619	(282)	1,647	1,365
Net changes in interest income	105,376	25,284	130,660	(2,855)	4,557	1,702
<b>Impact of Changes in Interest Expense</b>						
Short-term debt facilities	(11,412)	(13,405)	(24,817)	285	(6,013)	(5,728)
Short-term debt - servicer advance financing	(971)	—	(971)	—	—	—
Short-term debt - convertible notes, net	4,139	(417)	3,722	—	(8,836)	(8,836)
ABS issued - Redwood	—	—	—	1,560	—	1,560
ABS issued - Legacy Sequoia	2,531	(4,217)	(1,686)	2,697	(4,355)	(1,658)
ABS issued - Sequoia Choice	(53,702)	(1,792)	(55,494)	(4,275)	—	(4,275)
ABS issued - Freddie Mac SLST	(3,156)	—	(3,156)	—	—	—
ABS issued - Freddie Mac K-Series	(19,985)	—	(19,985)	—	—	—
Long-term debt - FHLBC	—	(19,591)	(19,591)	(111)	(10,079)	(10,190)
Long-term debt - Other	(9,045)	800	(8,245)	9,638	(799)	8,839
Net changes in interest expense	(91,601)	(38,622)	(130,223)	9,794	(30,082)	(20,288)
Net changes in interest income and expense	13,775	(13,338)	437	6,939	(25,525)	(18,586)
<b>Net Interest Income for the Year Ended</b>			<u>\$ 139,678</u>			<u>\$ 139,241</u>

The following table presents the components of net interest income by segment for the years ended December 31, 2018, 2017, and 2016.

**Table 7 – Net Interest Income by Segment**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
<b>Net Interest Income by Segment</b>					
Investment Portfolio	\$ 155,497	\$ 152,070	\$ 169,203	\$ 3,427	\$ (17,133)
Mortgage Banking	24,120	21,940	19,470	2,180	2,470
Corporate/Other	(39,939)	(34,769)	(30,846)	(5,170)	(3,923)
<b>Net Interest Income</b>	<b>\$ 139,678</b>	<b>\$ 139,241</b>	<b>\$ 157,827</b>	<b>\$ 437</b>	<b>\$ (18,586)</b>

Additional details regarding the activities impacting net interest income at each segment are included in the 'Results of Operations by Segment' section that follows.

The Corporate/Other line item in the table above primarily includes interest expense related to long-term debt not directly allocated to our segments and net interest income from consolidated Legacy Sequoia entities. The \$5 million decrease in net interest income from Corporate/Other during 2018 was primarily due to a higher average balance of long-term debt, as we issued \$200 million of convertible notes in June 2018, and lower net interest income from consolidated Legacy Sequoia entities, as loans in these securitizations continued to pay down. The \$4 million decrease in net interest income from Corporate/Other during 2017 was primarily due to a higher average balance of long-term debt, as we issued additional convertible debt in August 2017, and lower net interest income from consolidated Legacy Sequoia entities, as loans in these securitizations continued to pay down. Details regarding consolidated Legacy Sequoia entities are included in the "Results of Consolidated Legacy Sequoia Entities" section that follows.

The following table presents the net interest rate spread between the yield on unsecuritized loans and securities and the debt yield of the short-term debt used in part to finance each investment type at December 31, 2018.

**Table 8 – Interest Expense — Specific Borrowing Costs**

December 31, 2018	Residential Loans Held-for-Sale	Single-Family Rental Loans	Residential Bridge Loans	Residential Securities
Asset yield	4.88 %	5.90 %	9.15 %	4.83 %
Short-term debt yield	4.10 %	4.77 %	5.20 %	3.47 %
<b>Net Spread</b>	<b>0.78 %</b>	<b>1.13 %</b>	<b>3.95 %</b>	<b>1.36 %</b>

For additional discussion on short-term debt, including information regarding margin requirements and financial covenants, see 'Risks Relating to Debt Incurred under Short-Term and Long-Term Borrowing Facilities' in the Liquidity and Capital Resources section of this MD&A.



## Results of Operations by Segment

We report on our business using two distinct segments: Investment Portfolio and Mortgage Banking. Our segments are based on our organizational and management structure, which aligns with how our results are monitored and performance is assessed. For additional information on our segments, refer to *Note 23* in Part II, Item 8 and Part I, Item 1 of this Annual Report on Form 10-K. The following table presents the segment contribution from our two segments reconciled to our consolidated net income for the years ended December 31, 2018, 2017, and 2016.

**Table 9 – Segment Results Summary**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
<b>Segment Contribution from:</b>					
Investment Portfolio	\$ 156,180	\$ 185,671	\$ 188,077	\$ (29,491)	\$ (2,406)
Mortgage Banking	48,167	44,311	35,111	3,856	9,200
Corporate/Other	(84,747)	(89,576)	(91,936)	4,829	2,360
<b>Net Income</b>	<b>\$ 119,600</b>	<b>\$ 140,406</b>	<b>\$ 131,252</b>	<b>\$ (20,806)</b>	<b>\$ 9,154</b>

The following sections provide a detailed discussion of the results of operations at each of our two business segments for the years ended December 31, 2018, 2017, and 2016.

The \$5 million improvement from Corporate/Other in 2018 primarily resulted from lower variable compensation expense commensurate with lower GAAP earnings, as well as higher earnings from our consolidated Legacy Sequoia entities in 2018. This improvement was partially offset by an increase in interest expense related to a higher average balance of convertible debt outstanding during 2018. Details regarding consolidated Legacy Sequoia entities are included in the "*Results of Consolidated Legacy Sequoia Entities*" section that follows.

The \$2 million improvement from Corporate/Other in 2017 was primarily due to \$10 million of costs incurred in 2016 associated with the restructuring of our residential conforming and commercial mortgage banking operations in 2016. This improvement was partially offset by an increase in interest expense from convertible debt we issued in August 2017 as well as a decline in income from our consolidated Legacy Sequoia securitizations.

### Investment Portfolio Segment

Our Investment Portfolio segment is where we hold our housing-focused credit-sensitive investments in residential mortgage loans, mortgage-backed securities, and related assets. Our portfolio is primarily comprised of prime jumbo residential mortgage loans financed through the FHLBC, mortgage-backed securities collateralized by both residential and multifamily mortgages, and business purpose residential loans, which are mortgage loans to investors in residential properties.

GAAP accounting rules require us to consolidate certain securitization entities in which we hold subordinate interests and have either sponsored or hold certain control rights. While our economic interest is only in the subordinate securities we own in these entities, we present the loans and associated debt (Asset-backed securities issued) of these entities on our balance sheet. During 2018, we consolidated several such entities that we invested in.

For segment reporting purposes, certain of our Sequoia senior trading securities were included in our Mortgage Banking segment in 2016. As such, they are excluded from any amounts and tables in this section and may not agree with similarly titled amounts and tables in our consolidated financial statements and footnotes.

The following table presents the components of segment contribution for the Investment Portfolio segment for the years ended December 31, 2018, 2017, and 2016.

**Table 10 – Investment Portfolio Segment Contribution**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Interest income	\$ 304,636	\$ 188,760	\$ 192,200	\$ 115,876	\$ (3,440)
Interest expense	(149,139)	(36,690)	(22,997)	(112,449)	(13,693)
<b>Net interest income</b>	<b>155,497</b>	<b>152,070</b>	<b>169,203</b>	<b>3,427</b>	<b>(17,133)</b>
Reversal of provision for loan losses	—	—	7,102	—	(7,102)
<b>Net Interest Income after Provision</b>	<b>155,497</b>	<b>152,070</b>	<b>176,305</b>	<b>3,427</b>	<b>(24,235)</b>
<b>Non-interest income</b>					
Investment fair value changes, net	(24,693)	18,414	(24,367)	(43,107)	42,781
Other income, net	12,433	12,436	20,691	(3)	(8,255)
Realized gains, net	27,041	14,107	27,717	12,934	(13,610)
<b>Total non-interest income, net</b>	<b>14,781</b>	<b>44,957</b>	<b>24,041</b>	<b>(30,176)</b>	<b>20,916</b>
Direct operating expenses	(10,357)	(6,028)	(10,421)	(4,329)	4,393
<b>Segment contribution before income taxes</b>	<b>159,921</b>	<b>190,999</b>	<b>189,925</b>	<b>(31,078)</b>	<b>1,074</b>
Provision for income taxes	(3,741)	(5,328)	(1,848)	1,587	(3,480)
<b>Total Segment Contribution</b>	<b>\$ 156,180</b>	<b>\$ 185,671</b>	<b>\$ 188,077</b>	<b>\$ (29,491)</b>	<b>\$ (2,406)</b>

The following table presents our primary portfolios of investment assets in our Investment Portfolio segment at December 31, 2018 and December 31, 2017.

**Table 11 – Investment Portfolio**

(In Thousands)	December 31, 2018	December 31, 2017	Change
Residential loans held-for-investment at Redwood	\$ 2,383,932	\$ 2,434,386	\$ (50,454)
Residential loans held-for-investment at Sequoia Choice <sup>(1)</sup>	2,079,382	620,062	1,459,320
Residential loans held-for-investment at Freddie Mac SLST <sup>(1)</sup>	1,222,669	—	1,222,669
Residential bridge loans held-for-investment	112,798	—	112,798
Multifamily loans held-for-investment at Freddie Mac K-Series <sup>(1)</sup>	2,144,598	—	2,144,598
Residential securities	1,023,415	1,152,485	(129,070)
Multifamily securities	429,079	324,025	105,054
Other investments	427,764	63,598	364,166
Other assets	270,356	149,317	121,039
<b>Total Assets at Investment Portfolio</b>	<b>\$ 10,093,993</b>	<b>\$ 4,743,873</b>	<b>\$ 5,229,081</b>

- (1) Our economic investment in the consolidated Sequoia Choice entities at December 31, 2018 and December 31, 2017 was \$196 million and \$78 million, respectively. Our economic investment in the consolidated Freddie Mac SLST entity and Freddie Mac K-Series entities at December 31, 2018 was \$230 million and \$126 million, respectively. For additional details on our Choice, Freddie Mac SLST and multifamily loans, see the subsections titled "Residential Loans Held-for-Investment at Sequoia Choice Portfolio," "Residential Loans Held-for-Investment at Freddie Mac SLST Portfolio," and "Multifamily Loans Held-for-Investment at Freddie Mac K-Series Portfolio" that follow.

## Overview

During 2018, the increase in our total investment portfolio was primarily attributable to the deployment of \$810 million of capital into new residential and multifamily investments, further diversifying our exposure to housing credit, including investments in excess servicing off of seasoned non-Agency securitizations and re-performing loan securities. We also continued our focus on optimizing our investment portfolio by selling assets that had appreciated in value with lower current yields, and redeployed capital into higher-yielding opportunities. During 2018, we consolidated \$1.78 billion of residential Sequoia Choice loans from securitizations we completed, as well as \$1.21 billion of re-performing residential loans and \$2.10 billion of multifamily loans in connection with our investment in Freddie Mac SLST and Freddie Mac K-Series securitizations, respectively. Increases in interest income and gains from capital deployment and optimization in 2018 were more than offset by negative investment fair value changes, which were primarily driven by credit spread widening in the fourth quarter of 2018. Despite this recent credit spread widening, cash flows and credit fundamentals in our portfolio remain strong, benefiting from continued stability in the general economy and in housing.

## Net Interest Income

Net interest income from our Investment Portfolio primarily includes interest income from our securities and residential loans held-for-investment, as well as the associated interest expense from short-term debt, FHLBC borrowings, and ABS issued. The following table presents the components of net interest income for our Investment Portfolio segment by investment type for the years ended December 31, 2018, 2017, and 2016.

**Table 12 – Net Interest Income ("NII") from Investment Portfolio**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Net interest income from:					
Residential securities	\$ 75,358	\$ 74,020	\$ 67,210	\$ 1,338	\$ 6,810
Multifamily securities	7,089	6,137	2,255	952	3,882
HFI residential loans at Redwood	53,001	69,201	73,560	(16,200)	(4,359)
HFI residential loans at Sequoia Choice	9,876	858	—	9,018	858
HFI residential bridge loans	2,605	—	—	2,605	—
HFI residential loans at Freddie Mac SLST	1,297	—	—	1,297	—
HFI multifamily loans at Freddie Mac K-Series	1,337	—	—	1,337	—
Commercial mezzanine loans	—	345	25,168	(345)	(24,823)
Other interest income	4,934	1,509	1,010	3,425	499
<b>NII from Investment Portfolio</b>	<b>\$ 155,497</b>	<b>\$ 152,070</b>	<b>\$ 169,203</b>	<b>\$ 3,427</b>	<b>\$ (17,133)</b>
Supplemental information:					
Hedge interest expense, net	\$ (1,437)	\$ (13,297)	\$ (9,117)	\$ 11,860	\$ (4,180)

The increase in net interest income from our Investment Portfolio segment during 2018 was primarily due to higher net interest income from net capital deployment in 2018, as well as higher overall yields from portfolio optimization. These increases were partially offset by lower net interest income from residential loans held-for-investment at Redwood, which decreased primarily as a result of higher interest costs from rising benchmark rates during 2018.

The decrease in net interest income from our Investment Portfolio segment during 2017 was primarily due to the sale of our commercial mezzanine loans during 2016, as well as from higher interest costs on our FHLB borrowings during 2017. These decreases were partially offset by higher net interest income from real estate securities, primarily resulting from higher average balances of these investments from the redeployment of capital from our commercial mezzanine loan sales in 2016.

The table above also presents supplemental information about interest income (expense) from hedges that we use to manage interest rate risk in our investment portfolio, which are a component of Investment fair value changes, net on our consolidated statements of income. On a combined basis, net interest income in our investment portfolio segment plus income (expense) from hedges used to manage interest rate risk in our investment portfolio increased in 2018.

*Investment fair value changes, net*

Market valuation changes included in Investment fair value changes, net, result from changes in the fair value of investments and their associated hedges, generally due to changes in market interest rates, changes in credit spreads, and reductions in the basis of investments due to changes in principal balances. See *Note 20* of our *Notes to Consolidated Financial Statements* in Part I, Item I of this Annual Report on Form 10-K for additional detail regarding the components of Investment fair value changes, net presented on our consolidated statements of income.

The following table presents the components of investment fair value changes for our Investment Portfolio segment by investment type for the years ended December 31, 2018, 2017, and 2016. Each line item is comprised of market valuation gains and losses for the underlying investments as well as their associated interest rate hedges, exclusive of net hedge interest expense, which is presented separately.

**Table 13 – Investment Portfolio Fair Value Changes, Net by Investment Type**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Market valuation changes:					
Residential loans held-for-investment at Redwood	\$ (17,017)	\$ (4,261)	\$ (23,901)	\$ (12,756)	\$ 19,640
Residential bridge loans held-for-investment	(29)	—	—	(29)	—
Net investments in Sequoia Choice entities <sup>(1)</sup>	443	(323)	—	766	(323)
Net investments in Freddie Mac SLST entity <sup>(1)</sup>	1,271	—	—	1,271	—
Net investments in Freddie Mac K-Series entities <sup>(1)</sup>	931	—	—	931	—
Residential trading securities	(13,407)	21,581	7,396	(34,988)	14,185
Commercial/Multifamily trading securities	3,954	17,208	2,774	(13,254)	14,434
Servicer advance investments	(701)	—	—	(701)	—
Excess MSRs	1,823	—	—	1,823	—
Hedge interest expense, net	(1,437)	(13,297)	(9,117)	11,860	(4,180)
Other valuation changes	(524)	(2,494)	(1,519)	1,970	(975)
<b>Investment Fair Value Changes, Net</b>	<b>\$ (24,693)</b>	<b>\$ 18,414</b>	<b>\$ (24,367)</b>	<b>\$ (43,107)</b>	<b>\$ 42,781</b>

(1) Includes changes in fair value of the loans held-for-investment and the ABS issued at the entities, which netted together represent the change in value of our retained investments (senior and subordinate securities) at the consolidated VIEs.

For 2018, the negative investment fair value changes primarily resulted from credit spread widening that occurred in the fourth quarter, impacting both our residential loans and residential trading securities. These decreases were partially offset by overall spread tightening on our multifamily securities during 2018 as well as a lower negative impact from the change in basis of our investments from principal payments in 2018, as premiums on loans and securities generally decreased in 2018 due to rising benchmark interest rates.

For 2017, the net positive investment fair value changes primarily resulted from net increases in the fair value of our trading securities and their associated hedges, which were primarily due to tightening credit spreads on these securities during this period. These increases were partially offset by decreases in the fair value of our residential loans held-for-investment and their associated hedges, primarily resulting from principal paydowns and hedging costs.

*Other Income, net*

The following table presents the components of Other income, net for our investment portfolio and for Redwood in total for the years ended December 31, 2018, 2017, and 2016.

**Table 14 – Other Income, net**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
MSR income, net	\$ 7,076	\$ 7,860	\$ 14,353	\$ (768)	\$ (6,493)
Risk share income	3,613	3,194	4,952	419	(1,758)
FHLBC capital stock dividend	1,763	1,382	1,118	381	264
Other	(19)	—	268	(19)	(268)
<b>Other Income, Net from Investment Portfolio</b>	<b>12,433</b>	<b>12,436</b>	<b>20,691</b>	<b>13</b>	<b>(8,255)</b>
Equity investment earnings <sup>(1)</sup>	441	—	—	441	—
<b>Other Income, Net</b>	<b>\$ 12,874</b>	<b>\$ 12,436</b>	<b>\$ 20,691</b>	<b>\$ 454</b>	<b>\$ (8,255)</b>

(1) Equity investment earnings represents our share of earnings related to our investment in 5 Arches and is included in our Corporate/Other segment.

*Realized Gains, net*

During the years ended December 31, 2018, 2017, and 2016, we realized gains of \$27 million, \$14 million, and \$28 million, primarily from the sale of \$144 million, \$90 million, and \$253 million of AFS securities, respectively.

*Direct Operating Expenses and Provision for Income Taxes*

The increase in operating expenses at our Investment Portfolio segment for 2018 was primarily related to additional personnel added to support our new business initiatives as well as initial set-up costs associated with certain new investments we made in 2018. We began disposing of our conforming MSRs in 2016 and had disposed of substantially all of them by the end of 2017, which primarily drove the decrease in operating expenses from 2016 to 2017.

The provision for income taxes at our Investment Portfolio segment in 2018 and 2017 resulted from GAAP income earned at our TRS during those periods, primarily from MSRs and certain securities we hold at our TRS. For 2018, the decrease in the tax provision primarily resulted from decreased GAAP mark-to-market gains on securities held at our TRS in this segment. For additional detail on income taxes, see the "Tax Provision and Taxable Income" section that follows.

### Residential Loans Held-for-Investment at Redwood Portfolio

The following table provides the activity of residential loans held-for-investment at Redwood during the years ended December 31, 2018 and 2017.

**Table 15 – Residential Loans Held-for-Investment at Redwood - Activity**

(In Thousands)	Years Ended December 31,	
	2018	2017
Fair value at beginning of period	\$ 2,434,386	\$ 2,261,016
Transfers between portfolios <sup>(1)</sup>	269,883	500,887
Principal repayments	(290,327)	(322,187)
Changes in fair value, net	(30,010)	(5,330)
<b>Fair Value at End of Period</b>	<b>\$ 2,383,932</b>	<b>\$ 2,434,386</b>

(1) Represents the net transfers of loans into our Investment Portfolio segment from our Mortgage Banking segment and their reclassification from held-for-sale to held-for-investment.

The decrease in the balance of loans held-for-investment during 2018 was primarily due to principal repayments and a decrease in fair value of the loans during this period, resulting from rising benchmark interest rates and credit spread widening. As our loans held-for-investment are generally fixed-rate and sensitive to changes in interest rates, we utilize various interest rate derivatives to hedge our interest rate risk for these investments. As a result of rising interest rates during the year ended December 31, 2018, interest rate derivatives associated with these investments increased in value by \$13 million.

At December 31, 2018, \$2.38 billion of loans were held by our FHLB-member subsidiary and financed with \$2.00 billion of borrowings from the FHLBC. In connection with these borrowings, our FHLB-member subsidiary is required to hold \$43 million of FHLB stock.

At December 31, 2018, the weighted average maturity of these FHLB borrowings was approximately seven years and they had a weighted average cost of 2.52% per annum. While the interest costs on these borrowings is variable and resets every 13 weeks, we utilize various interest rate derivative instruments to hedge our interest rate risk in this portfolio.

Under a final rule published by the Federal Housing Finance Agency in January 2016, our FHLB-member subsidiary will remain an FHLB-member through the five-year transition period for captive insurance companies. Our FHLB-member subsidiary's existing \$2.00 billion of FHLB debt, which matures beyond this transition period, is permitted to remain outstanding until its stated maturity. As residential loans pledged as collateral for this debt pay down, we are permitted to pledge additional loans or other eligible assets to collateralize this debt; however, we do not expect to be able to increase our subsidiary's FHLB debt above the existing \$2.00 billion.

The following table presents the unpaid principal balances for residential real estate loans held-for-investment at fair value by product type at December 31, 2018.

**Table 16 – Characteristics of Residential Real Estate Loans Held-for-Investment at Redwood**

December 31, 2018		
(Dollars in Thousands)	Principal Balance	Weighted Average Coupon
Fixed - 30 year	\$ 2,020,786	4.14 %
Fixed - 15, 20, & 25 year	60,979	3.67 %
Hybrid	303,565	4.23 %
<b>Total Outstanding Principal</b>	<b>\$ 2,385,330</b>	

The outstanding loans held-for-investment at Redwood at December 31, 2018 were prime-quality, first-lien loans, of which 96% were originated between 2013 and 2018 and 4% were originated in 2012 and prior years. The weighted average FICO score of borrowers backing these loans was 768 (at origination) and the weighted average loan-to-value ("LTV") ratio was 66% (at origination). At December 31, 2018, two of these loans with an aggregate unpaid principal balance of \$1 million were greater than 90 days delinquent and none of these loans were in foreclosure.

### Residential Bridge Loans Held-for-Investment at Redwood Portfolio

The outstanding residential bridge loans held-for-investment at December 31, 2018 were acquired in 2018 and comprised of first-lien, fixed-rate, interest-only loans with a weighted average coupon of 9.16% and original maturities of 6 to 24 months. At origination, the weighted average FICO score of borrowers backing these loans was 698, the weighted average LTV ratio of these loans was 76%, and the estimated rehabilitated LTV ratio was 59%. At December 31, 2018, of the 157 loans in this portfolio, seven of these loans with an aggregate unpaid principal balance of \$12 million were greater than 90 days delinquent and none of these loans were in foreclosure.

### Real Estate Securities Portfolio

The following table sets forth our real estate securities activity by collateral type in our Investment Portfolio segment for the years ended December 31, 2018 and 2017.

**Table 17 – Real Estate Securities Activity by Collateral Type**

Year Ended December 31, 2018	Residential			Multifamily	
(In Thousands)	Senior	Mezzanine	Subordinate	Mezzanine	Total
Beginning fair value	\$ 249,838	\$ 331,452	\$ 571,195	\$ 324,025	\$ 1,476,510
Transfers	—	—	—	(17,181)	(17,181)
Acquisitions					
Sequoia securities	29,968	14,204	7,739	—	51,911
Third-party securities	78,868	54,675	250,503	225,521	609,567
Sales					
Sequoia securities	—	(54,743)	(16,953)	—	(71,696)
Third-party securities	(67,333)	(114,222)	(248,957)	(79,741)	(510,253)
Gains on sales and calls, net	16,973	4,354	5,714	—	27,041
Effect of principal payments <sup>(1)</sup>	(35,410)	(8,896)	(9,545)	(28,051)	(81,902)
Change in fair value, net	(26,619)	(8,677)	(713)	4,506	(31,503)
Ending Fair Value <sup>(2)</sup>	\$ 246,285	\$ 218,147	\$ 558,983	\$ 429,079	\$ 1,452,494

Year Ended December 31, 2017	Residential			Multifamily	
(In Thousands)	Senior	Mezzanine	Subordinate	Mezzanine	Total
Beginning fair value	\$ 259,092	\$ 315,397	\$ 352,180	\$ 91,770	\$ 1,018,439
Transfers	—	—	—	—	—
Acquisitions					
Sequoia securities	14,524	51,797	13,341	—	79,662
Third-party securities	32,681	83,791	247,183	237,143	600,798
Sales					
Sequoia securities	—	(42,304)	—	—	(42,304)
Third-party securities	(13,635)	(102,062)	(54,467)	(15,858)	(186,022)
Gains on sales and calls, net	5,327	5,176	3,604	—	14,107
Effect of principal payments <sup>(1)</sup>	(36,605)	(18,279)	(11,815)	(5,066)	(71,765)
Change in fair value, net	(11,546)	37,936	21,169	16,036	63,595
Ending Fair Value	\$ 249,838	\$ 331,452	\$ 571,195	\$ 324,025	\$ 1,476,510

(1) The effect of principal payments reflects the change in fair value due to principal payments, which is calculated as the cash principal received on a given security during the period multiplied by the prior quarter ending price or acquisition price for that security.

(2) At December 31, 2018, excludes \$194 million of securities retained from our consolidated Sequoia Choice securitizations as well as \$229 million and \$126 million of securities we owned that were issued by consolidated Freddie Mac SLST and Freddie Mac K-Series securitizations, respectively. For additional details on our Choice and multifamily loans, see the subsections titled "Residential Loans at Sequoia Choice Investment Portfolio," "Residential Loans at Freddie Mac SLST Investment Portfolio," and "Multifamily Loans at Freddie Mac K-Series Investment Portfolio" that follow.

At December 31, 2018, our securities consisted of fixed-rate assets (74%), adjustable-rate assets (20%), hybrid assets that reset within the next year (6%), and hybrid assets that reset between 12 and 36 months (1%). For the portions of our securities portfolio that are sensitive to changes in interest rates, we seek to minimize this interest rate risk by using various derivative instruments.

We directly finance our holdings of real estate securities with a combination of capital and collateralized debt in the form of repurchase (or “repo”) financing. The following table presents the fair value of our residential securities that were financed with repurchase debt at December 31, 2018.

**Table 18 – Real Estate Securities Financed with Repurchase Debt**

<b>December 31, 2018</b> (Dollars in Thousands, except Weighted Average Price)	<b>Real Estate Securities <sup>(1)</sup></b>	<b>Repurchase Debt</b>	<b>Allocated Capital</b>	<b>Weighted Average Price <sup>(2)</sup></b>	<b>Financing Haircut <sup>(3)</sup></b>
<b>Residential Securities</b>					
Senior	\$ 147,861	\$ (132,937)	\$ 14,924	\$ 99	10%
Mezzanine <sup>(4)</sup>	368,659	(311,253)	57,406	97	16%
Subordinate <sup>(5)</sup>	257,925	(185,043)	72,882	74	28%
<b>Total Residential Securities</b>	<b>774,445</b>	<b>(629,233)</b>	<b>145,212</b>	<b>88</b>	<b>19%</b>
Multifamily Securities <sup>(6)</sup>	446,600	(359,657)	86,943	94	19%
<b>Total</b>	<b>\$ 1,221,045</b>	<b>\$ (988,890)</b>	<b>\$ 232,155</b>		

(1) Amounts represent carrying value of securities, which are held at GAAP fair value.

(2) GAAP fair value per \$100 of principal.

(3) Allocated capital divided by GAAP fair value.

(4) Includes \$130 million and \$53 million of securities we owned that were issued by consolidated Sequoia Choice and Freddie Mac SLST securitizations, respectively.

(5) Includes \$176 million of securities we owned that were issued by the consolidated Freddie Mac SLST securitization.

(6) Includes \$18 million of securities we owned that were issued by consolidated Freddie Mac K-Series securitizations.

At December 31, 2018, we had short-term debt incurred through repurchase facilities of \$989 million, which was secured by \$1.22 billion of real estate securities. The remaining \$780 million of our securities, including certain securities we own that were issued by consolidated Sequoia Choice and Freddie Mac K-Series securitization entities, were financed with capital. Our repo borrowings were made under facilities with nine different counterparties, and the weighted average cost of funds for these facilities during 2018 was approximately 3.21%.

At December 31, 2018, the credit performance on the securities we financed through repurchase facilities continued to perform in line with, or better than our expectations. In addition to the allocated capital listed in the table above that directly supports our repurchase facilities (the “financing haircut”), we continue to hold a designated amount of supplemental risk capital available for potential margin calls or future obligations relating to these facilities.

The majority of the \$148 million of senior securities noted in the table above are supported by seasoned residential loans originated prior to 2008. The \$369 million of mezzanine securities financed through repurchase facilities at December 31, 2018, primarily carry investment grade credit ratings and are supported by residential loans originated between 2012 and 2018. The majority of the loans underlying these securities have experienced minimal delinquencies to date. The \$447 million of multifamily securities financed through repurchase facilities at December 31, 2018 primarily carry investment grade credit ratings with 7%-8% of structural credit enhancement.



The following table presents our real estate securities at December 31, 2018 and December 31, 2017, categorized by portfolio vintage (the years the securities were issued), and by priority of cash flows (senior, mezzanine, and subordinate). We have additionally separated securities issued through our Sequoia platform or by third parties, including the Agencies.

**Table 19 – Real Estate Securities by Vintage and Type**

**December 31, 2018**

(In Thousands)	Sequoia 2012-2018	Third Party 2013-2018	Agency CRT 2013-2018	Third Party <=2008	Total Residential Securities	Multifamily 2015-2018	Total Real Estate Securities
Senior <sup>(1)</sup>	\$ 61,179	\$ 96,069	\$ —	\$ 89,037	\$ 246,285	\$ —	\$ 246,285
Mezzanine <sup>(2)</sup>	99,977	118,170	—	—	218,147	429,079	647,226
Subordinate <sup>(1)</sup>	130,271	174,879	237,841	15,992	558,983	—	558,983
<b>Total Securities <sup>(3)</sup></b>	<b>\$ 291,427</b>	<b>\$ 389,118</b>	<b>\$ 237,841</b>	<b>\$ 105,029</b>	<b>\$ 1,023,415</b>	<b>\$ 429,079</b>	<b>\$ 1,452,494</b>

**December 31, 2017**

(In Thousands)	Sequoia 2012-2017	Third Party 2012-2017	Agency CRT 2013-2017	Third Party <=2008	Total Residential Securities	Multifamily 2015-2017	Total Real Estate Securities
Senior <sup>(1)</sup>	\$ 33,773	\$ 33,517	\$ —	\$ 182,548	\$ 249,838	\$ —	\$ 249,838
Mezzanine <sup>(2)</sup>	147,466	183,985	—	—	331,451	324,025	655,476
Subordinate <sup>(1)</sup>	139,442	108,455	300,713	22,586	571,196	—	571,196
<b>Total Securities <sup>(3)</sup></b>	<b>\$ 320,681</b>	<b>\$ 325,957</b>	<b>\$ 300,713</b>	<b>\$ 205,134</b>	<b>\$ 1,152,485</b>	<b>\$ 324,025</b>	<b>\$ 1,476,510</b>

(1) At December 31, 2018 and December 31, 2017, senior Sequoia and third-party securities included \$82 million and \$70 million of IO securities, respectively. At December 31, 2018 and December 31, 2017, subordinate third-party securities included \$26 million and \$12 million of IO securities, respectively. Our interest-only securities included \$43 million and \$15 million of A-IO-S securities at December 31, 2018 and December 31, 2017, respectively, which are securities we retained from certain of our Sequoia securitizations that represent certificated servicing strips and therefore may be negatively impacted by the operating and funding costs related to servicing the associated securitized mortgage loans.

(2) Mezzanine primarily includes securities initially rated AA through BBB- and issued in 2012 or later.

(3) Excludes \$194 million and \$78 million of securities retained from our consolidated Sequoia Choice securitizations at December 31, 2018 and December 31, 2017, respectively. At December 31, 2018, excludes \$229 million and \$126 million of securities we owned that were issued by consolidated Freddie Mac SLST and Freddie Mac K-Series securitizations, respectively. For GAAP purposes we consolidated \$5.45 billion of loans and \$4.90 billion of non-recourse ABS debt associated with these securities.

The following tables present the components of the interest income we earned on AFS securities for the years ended December 31, 2018, 2017, and 2016.

**Table 20 – Interest Income — AFS Securities**

**Year Ended December 31, 2018**

Year Ended December 31, 2018					Yield as a Result of		
(Dollars in Thousands)	Interest Income	Discount (Premium) Amortization	Total Interest Income	Average Amortized Cost	Interest Income	Discount (Premium) Amortization	Total Interest Income
Residential							
Senior	\$ 6,290	\$ 8,174	\$ 14,464	\$ 106,304	5.92%	7.69%	13.61%
Mezzanine	1,999	838	2,837	47,414	4.22%	1.77%	5.99%
Subordinate	11,341	5,086	16,427	148,416	7.64%	3.43%	11.07%
Total AFS Securities	\$ 19,630	\$ 14,098	\$ 33,728	\$ 302,134	6.50%	4.67%	11.16%

Year Ended December 31, 2017

(Dollars in Thousands)	Interest Income	Discount (Premium) Amortization	Total Interest Income	Average Amortized Cost	Yield as a Result of		
					Interest Income	Discount (Premium) Amortization	Total Interest Income
<b>Residential</b>							
Senior	\$ 8,361	\$ 11,176	\$ 19,537	\$ 153,619	5.44%	7.28%	12.71%
Mezzanine	4,860	2,215	7,075	123,571	3.93%	1.79%	5.72%
Subordinate	11,368	5,404	16,772	153,205	7.42%	3.53%	10.95%
<b>Total AFS Securities</b>	<b>\$ 24,589</b>	<b>\$ 18,795</b>	<b>\$ 43,384</b>	<b>\$ 430,395</b>	<b>5.71%</b>	<b>4.37%</b>	<b>10.08%</b>

Year Ended December 31, 2016

(Dollars in Thousands)	Interest Income	Discount (Premium) Amortization	Total Interest Income	Average Amortized Cost	Yield as a Result of		
					Interest Income	Discount (Premium) Amortization	Total Interest Income
<b>Residential</b>							
Senior	\$ 11,255	\$ 17,820	\$ 29,075	\$ 222,379	5.06%	8.01%	13.07%
Mezzanine	7,260	2,686	9,946	184,602	3.93%	1.46%	5.39%
Subordinate	9,621	5,747	15,368	123,376	7.80%	4.66%	12.46%
<b>Total AFS Securities</b>	<b>\$ 28,136</b>	<b>\$ 26,253</b>	<b>\$ 54,389</b>	<b>\$ 530,357</b>	<b>5.31%</b>	<b>4.95%</b>	<b>10.26%</b>

*Residential Loans Held-for-Investment at Sequoia Choice Portfolio*

During 2017 and 2018, we issued six securitizations primarily comprised of expanded-prime Choice loans that we consolidate for financial reporting purposes in accordance with GAAP. These entities are independent of Redwood and the assets and liabilities of these entities are not, respectively, owned by us or legal obligations of ours. We record the assets and liabilities of the consolidated Sequoia Choice entities at fair value, based on the estimated fair value of the debt securities (ABS) issued from the securitizations, in accordance with GAAP provisions for collateralized financing entities. At December 31, 2018, our economic investment in the consolidated Sequoia Choice entities had an estimated fair value of \$196 million, and was comprised of retained senior and subordinate securities.

The following tables present the statements of income for the years ended December 31, 2018, 2017, and 2016 and the balance sheets of the consolidated Sequoia Choice entities at December 31, 2018 and December 31, 2017. All amounts in the statements of income and balance sheets presented below are included in our consolidated financial statements and are included in our Investment Portfolio segment.

*Table 21 – Consolidated Sequoia Choice Entities Statements of Income*

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Interest income	\$ 69,645	\$ 5,133	\$ —	\$ 64,512	\$ 5,133
Interest expense	(59,769)	(4,275)	—	(55,494)	(4,275)
<b>Net interest income</b>	<b>9,876</b>	<b>858</b>	<b>—</b>	<b>9,018</b>	<b>858</b>
Investment fair value changes, net	444	(323)	—	767	(323)
<b>Net Income from Consolidated Sequoia Choice Entities</b>	<b>\$ 10,320</b>	<b>\$ 535</b>	<b>\$ —</b>	<b>\$ 9,785</b>	<b>\$ 535</b>

**Table 22 – Consolidated Sequoia Choice Entities Balance Sheets**

<b>(In Thousands)</b>	<b>December 31, 2018</b>	<b>December 31, 2017</b>
Residential loans, held-for-investment, at fair value	\$ 2,079,382	\$ 620,062
Other assets	10,010	2,528
<b>Total Assets</b>	<b>\$ 2,089,392</b>	<b>\$ 622,590</b>
Other liabilities	\$ 8,202	\$ 2,035
Asset-backed securities issued, at fair value	1,885,010	542,140
Total liabilities	1,893,212	544,175
Equity (fair value of Redwood's retained investments in entities)	196,180	78,415
<b>Total Liabilities and Equity</b>	<b>\$ 2,089,392</b>	<b>\$ 622,590</b>

The following table presents residential loan activity at the consolidated Sequoia Choice entities for the years ended December 31, 2018 and 2017.

**Table 23 – Residential Loans Held-for-Investment at Sequoia Choice - Activity**

<b>(In Thousands)</b>	<b>Years Ended December 31,</b>	
	<b>2018</b>	<b>2017</b>
Balance at beginning of period	\$ 620,062	\$ —
New securitization issuance	1,777,229	645,689
Principal repayments	(305,252)	(20,600)
Changes in fair value, net	(12,657)	(5,027)
<b>Balance at End of Period</b>	<b>\$ 2,079,382</b>	<b>\$ 620,062</b>

During the years ended December 31, 2018 and 2017, we had transfers of \$1.78 billion and \$646 million of consolidated Sequoia Choice loans, respectively, from our Mortgage Banking segment to our Investment Portfolio segment. The outstanding loans held-for-investment at our Sequoia Choice entities at December 31, 2018 were primarily comprised of prime-quality, first-lien, 30-year, fixed-rate loans originated in 2017 and 2018. The gross weighted average coupon of these loans was 4.73%, the weighted average FICO score of borrowers backing these loans was 744 (at origination) and the weighted average original LTV ratio was 75% (at origination). At December 31, 2018, three of these loans with an aggregate unpaid principal balance of \$2 million were greater than 90 days delinquent and none of these loans were in foreclosure. At December 31, 2017, none of these loans were greater than 90 days delinquent or in foreclosure.

**Residential Loans Held-for-Investment at Freddie Mac SLST Portfolio**

During the fourth quarter of 2018, we invested in certain subordinate securities backed by a pool of seasoned re-performing residential mortgage loans that were issued by a Freddie Mac SLST securitization entity and we were required to consolidate this entity for financial reporting purposes in accordance with GAAP. This entity is independent of Redwood and the assets and liabilities of this entity are not, respectively, owned by us or legal obligations of ours. We record the assets and liabilities of the consolidated Freddie Mac SLST entity at fair value, based on the estimated fair value of the debt securities (ABS) issued from the securitization, in accordance with GAAP provisions for collateralized financing entities. At December 31, 2018, our economic investment in the consolidated Freddie Mac SLST entity had an estimated fair value of \$230 million, and was comprised of subordinate securities.

The following tables present the statements of income for the years ended December 31, 2018, 2017, and 2016 and the balance sheets of the consolidated Freddie Mac SLST entity at December 31, 2018 and December 31, 2017. All amounts in the statements of income and balance sheets presented below are included in our consolidated financial statements and are included in our Investment Portfolio segment.

**Table 24 – Consolidated Freddie Mac SLST Entity Statements of Income**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Interest income	\$ 4,453	\$ —	\$ —	\$ 4,453	\$ —
Interest expense	(3,156)	—	—	(3,156)	—
<b>Net interest income</b>	<b>1,297</b>	<b>—</b>	<b>—</b>	<b>1,297</b>	<b>—</b>
Investment fair value changes, net	1,271	—	—	1,271	—
<b>Net Income from Consolidated Freddie Mac SLST Entity</b>	<b>\$ 2,568</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 2,568</b>	<b>\$ —</b>

**Table 25 – Consolidated Freddie Mac SLST Entity Balance Sheets**

(In Thousands)	December 31, 2018	December 31, 2017
Residential loans, held-for-investment, at fair value	\$ 1,222,669	\$ —
Other assets	3,926	—
<b>Total Assets</b>	<b>\$ 1,226,595</b>	<b>\$ —</b>
Other liabilities	\$ 2,907	\$ —
Asset-backed securities issued, at fair value	993,748	—
Total liabilities	996,655	—
Equity (fair value of Redwood's investments in entity)	229,940	—
<b>Total Liabilities and Equity</b>	<b>\$ 1,226,595</b>	<b>\$ —</b>

The following table presents residential loan activity at the consolidated Freddie Mac SLST entity for the years ended December 31, 2018 and 2017.

**Table 26 – Residential Loans Held-for-Investment at Freddie Mac SLST - Activity**

(In Thousands)	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ —	\$ —
Consolidation of residential loans held in securitization trust	1,206,645	—
Principal repayments	(5,272)	—
Changes in fair value, net	21,296	—
<b>Balance at End of Period</b>	<b>\$ 1,222,669</b>	<b>\$ —</b>

The outstanding re-performing and non-performing residential loans held-for-investment at the Freddie Mac SLST entity at December 31, 2018 were first-lien, fixed- or step-rate loans that have been modified. At securitization, in December 2018, the weighted average FICO score of borrowers backing these loans was 598 and the weighted average LTV ratio of these loans was 68%. At December 31, 2018, 306 of these loans with an aggregate unpaid principal balance of \$51 million were greater than 90 days delinquent and none of these loans were in foreclosure. Due to the credit profile of re-performing and non-performing loans, our investment in the subordinate securities issued by the Freddie Mac SLST entity was made based on an expectation of defaults and credit losses that will occur on the underlying pool of residential mortgage loans, which was reflected in our purchase price yield. At December 31, 2018, delinquencies and credit losses in the portfolio were in line with our expectations.

### *Multifamily Loans Held-for-Investment at Freddie Mac K-Series Portfolio*

During the third and fourth quarters of 2018, we invested in certain subordinate securities issued by Freddie Mac K-Series securitization entities and were required to consolidate these entities for financial reporting purposes in accordance with GAAP. Each of these entities is independent of Redwood and of each other and the assets and liabilities of these entities are not, respectively, owned by us or legal obligations of ours. We record the assets and liabilities of the consolidated Freddie Mac K-Series entities at fair value, based on the estimated fair value of the debt securities (ABS) issued from the securitizations, in accordance with GAAP provisions for collateralized financing entities. At December 31, 2018, our economic investment in the consolidated Freddie Mac K-Series entities had an estimated fair value of \$126 million, and was comprised of subordinate securities.

The following tables present the statements of income for the years ended December 31, 2018, 2017, and 2016 and the balance sheets of the consolidated Freddie Mac K-Series entities at December 31, 2018 and December 31, 2017. All amounts in the statements of income and balance sheets presented below are included in our consolidated financial statements and are included in our Investment Portfolio segment.

**Table 27 – Consolidated Freddie Mac K-Series Entities Statements of Income**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Interest income	\$ 21,322	\$ —	\$ —	\$ 21,322	\$ —
Interest expense	(19,985)	—	—	(19,985)	—
<b>Net interest income</b>	<b>1,337</b>	<b>—</b>	<b>—</b>	<b>1,337</b>	<b>—</b>
Investment fair value changes, net	931	—	—	931	—
<b>Net Income from Consolidated Freddie Mac K-Series Entities</b>	<b>\$ 2,268</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 2,268</b>	<b>\$ —</b>

**Table 28 – Consolidated Freddie Mac K-Series Entities Balance Sheets**

(In Thousands)	December 31, 2018	December 31, 2017
Multifamily loans, held-for-investment, at fair value	\$ 2,144,598	\$ —
Other assets	6,595	—
<b>Total Assets</b>	<b>\$ 2,151,193</b>	<b>\$ —</b>
Other liabilities	\$ 6,239	\$ —
Asset-backed securities issued, at fair value	2,019,075	—
Total liabilities	2,025,314	—
Equity (fair value of Redwood's investments in entities)	125,879	—
<b>Total Liabilities and Equity</b>	<b>\$ 2,151,193</b>	<b>\$ —</b>

The following table presents multifamily loan activity at the consolidated Freddie Mac K-Series entities for the years ended December 31, 2018 and 2017.

**Table 29 – Multifamily Loans Held-for-Investment at Freddie Mac K-Series - Activity**

(In Thousands)	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ —	\$ —
Consolidation of multifamily loans held in securitization trusts	2,099,916	—
Principal repayments	(1,873)	—
Changes in fair value, net	46,555	—
<b>Balance at End of Period</b>	<b>\$ 2,144,598</b>	<b>\$ —</b>

The outstanding multifamily loans held-for-investment at the Freddie Mac K-Series entities at December 31, 2018 were first lien, fixed-rate loans that were originated in 2015 and 2016 and had original loan terms of seven to ten years and an original weighted average LTV ratio of 69%. At December 31, 2018, the weighted average coupon of these loans was 4.16% and the weighted average loan term was seven years. At December 31, 2018, none of these loans were greater than 90 days delinquent or in foreclosure.

### *Mortgage Servicing Rights Portfolio*

Our MSR is held and managed at our taxable REIT subsidiary and typically are acquired together with loans from originators and then separately recognized under GAAP when the MSR is retained and the associated loan is sold to a third party or transferred to a Sequoia residential securitization sponsored by us that meets the GAAP criteria for sale. In addition, in the past we have also purchased MSRs on a flow basis from third-parties that sold the associated loans directly to the Agencies. Although we own the rights to service loans, we contract with sub-servicers to perform these activities. Our receipt of MSR income is not subject to any covenants other than customary performance obligations associated with servicing residential loans. If a sub-servicer we contract with was to fail to perform these obligations, our servicing rights could be terminated and we would evaluate our MSR asset for impairment at that time.

The following table provides the activity for MSRs by portfolio for the years ended December 31, 2018 and 2017.

**Table 30 – MSR Activity by Portfolio**

(In Thousands)	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 63,598	\$ 118,526
Additions		
MSRs retained from Sequoia securitizations	—	7,123
MSRs retained from third-party loan sales	328	263
Purchased MSRs	—	640
Sold MSRs	(1,077)	(52,788)
Market valuation adjustments	(2,568)	(10,166)
<b>Balance at End of Period</b>	<b>\$ 60,281</b>	<b>\$ 63,598</b>

The following table presents characteristics of our MSR investments and their associated loans at December 31, 2018.

**Table 31 – Characteristics of MSR Investments Portfolio**

(Dollars in Thousands)	December 31, 2018
Unpaid principal balance	\$ 4,933,864
Fair value of MSRs	\$ 60,281
MSR values as percent of unpaid principal balance	1.22 %
Gross cash yield <sup>(1)</sup>	0.28 %
Number of loans	7,545
Average loan size	\$ 654
Average coupon	3.96 %
Average loan age (months)	54
Average original loan-to-value	67 %
Average original FICO score	771
60+ day delinquencies	0.10 %

(1) Gross cash yield is calculated by dividing the gross servicing fees we received for the year ended December 31, 2018, by the weighted average notional balance of loans associated with MSRs we owned during the year.

At December 31, 2018, nearly all of our MSRs were comprised of base MSRs and within this portfolio we did not own any portion of a servicing right related to any loan where we did not own the entire servicing right. At both December 31, 2018 and December 31, 2017, we had \$1 million of servicer advances outstanding related to our MSRs, which are presented in Other assets on our consolidated balance sheets.

### ***Servicing Investments***

In December 2018, we invested in servicer advances and excess MSRs associated with legacy RMBS (See Note 10 to our Consolidated Financial Statements for additional information). At December 31, 2018, our servicer advance investments and excess MSRs associated with this investment had a carrying value of \$300 million and \$12 million, respectively. The following table presents characteristics of the residential mortgage loans underlying these investments at December 31, 2018.

***Table 32 – Characteristics of Servicing Investments***

<b>(Dollars in Thousands)</b>	<b>December 31, 2018</b>
Unpaid principal balance	\$ 8,047,120
Number of loans	38,422
Average loan size	\$ 209
Average coupon	5.02 %
Average loan age (months)	160
Average original loan-to-value	94 %
Average original FICO score	701
60+ day delinquencies <sup>(1)</sup>	10.75 %

(1) Includes unpaid principal balance of \$513 million, or 6% of total portfolio, of loans in foreclosure or transferred to REO.

### ***Mortgage Banking Segment***

Our Mortgage Banking segment primarily consists of operating a mortgage loan conduit that acquires residential loans from third-party originators for subsequent sale, securitization, or transfer to our investment portfolio. We typically acquire prime, jumbo mortgage loans from our network of loan sellers and in 2018 we also began to acquire business purpose residential loans from our affiliate, 5 Arches.

During 2018, we only acquired a small number of business purpose residential loans and they did not have a significant impact on our mortgage banking results. We expect to continue to aggregate business purpose residential loans in the future and will seek to securitize the loans, once sufficient scale is achieved, and market conditions are permissible.

The following table presents the components of segment contribution for the Mortgage Banking segment for the years ended December 31, 2018, 2017, and 2016. Beginning in the third quarter of 2018, this segment includes our single-family rental business purpose residential loans.

**Table 33 – Mortgage Banking Segment Contribution**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
<b>Interest income</b>					
Loans	\$ 53,054	\$ 39,309	\$ 33,089	\$ 13,745	\$ 6,220
Sequoia securities	—	—	572	—	(572)
Total interest income	53,054	39,309	33,661	13,745	5,648
Interest expense	(28,934)	(17,369)	(14,191)	(11,565)	(3,178)
<b>Net interest income</b>	24,120	21,940	19,470	2,180	2,470
Mortgage banking activities, net	59,566	53,908	40,753	5,658	13,155
Direct operating expenses	(28,172)	(25,113)	(23,252)	(3,059)	(1,861)
<b>Segment contribution before income taxes</b>	55,514	50,735	36,971	4,779	13,764
Provision for income taxes	(7,347)	(6,424)	(1,860)	(923)	(4,564)
<b>Segment Contribution</b>	<u>\$ 48,167</u>	<u>\$ 44,311</u>	<u>\$ 35,111</u>	<u>\$ 3,856</u>	<u>\$ 9,200</u>

The following tables provide the activity of unsecuritized residential loans during the years ended December 31, 2018 and 2017.

**Table 34 – Residential Loans Held-for-Sale — Activity**

(In Thousands)	Years Ended December 31,					
	2018			2017		
	Select	Choice	Total	Select	Choice	Total
Balance at beginning of period	\$ 1,101,356	\$ 326,589	\$ 1,427,945	\$ 765,058	\$ 70,341	\$ 835,399
Acquisitions	4,833,326	2,300,232	7,133,558	4,503,674	1,237,977	5,741,651
Sales	(5,149,243)	(277,061)	(5,426,304)	(3,866,053)	(116,631)	(3,982,684)
Transfers between portfolios <sup>(1)</sup>	(29,965)	(2,017,129)	(2,047,094)	(286,676)	(859,900)	(1,146,576)
Principal repayments	(46,744)	(20,945)	(67,689)	(42,252)	(11,222)	(53,474)
Changes in fair value, net	7,463	20,922	28,385	27,605	6,024	33,629
<b>Balance at End of Period</b>	<u>\$ 716,193</u>	<u>\$ 332,608</u>	<u>\$ 1,048,801</u>	<u>\$ 1,101,356</u>	<u>\$ 326,589</u>	<u>\$ 1,427,945</u>

(1) Represents the net transfers of loans out of our Mortgage Banking segment into our Investment Portfolio segment and their reclassification from held-for-sale to held-for-investment. Includes \$1.78 billion and \$646 million of Choice loans securitized during the years ended December 31, 2018 and 2017, respectively, which were not treated as sales for GAAP purposes and continue to be reported on our consolidated balance sheets within our Investment Portfolio segment.

#### Overview

Segment contribution from our mortgage banking business increased during 2018, driven by higher loan purchase volume and consistent gross margins as compared to the prior year, despite declines in origination volume across the industry and an increasingly competitive landscape. During the year ended December 31, 2018, we purchased \$7.13 billion of predominately prime residential jumbo loans, securitized \$3.22 billion of jumbo Select loans that were accounted for as sales, and sold \$2.21 billion of jumbo loans to third parties. Additionally, we transferred \$1.78 billion of jumbo Choice loans that did not qualify for sales accounting treatment under GAAP to Sequoia securitization entities and we had net transfers of \$270 million of loans to our Investment Portfolio segment that were financed with borrowings from the FHLBC. Our pipeline of loans identified for purchase at December 31, 2018 included \$466 million of jumbo loans. During the fourth quarter of 2018, we reallocated capital from our mortgage banking business to our investment portfolio, leveraging operational changes that we expect will allow us to manage our mortgage banking business with less capital.



We utilize a combination of capital and our residential loan warehouse facilities to manage our inventory of residential loans held-for-sale. At December 31, 2018, we had \$861 million of warehouse debt outstanding to fund our residential loans held-for-sale. The weighted average cost of the borrowings outstanding under these facilities during 2018 was 3.66%. Jumbo loan warehouse capacity at December 31, 2018 totaled \$1.43 billion across four separate counterparties and our business purpose residential loan warehouse capacity totaled \$400 million across two separate counterparties, which should continue to provide sufficient liquidity to fund our residential mortgage banking operations in the near-term.

At December 31, 2018, we had 501 loan sellers, up from 451 at the end of 2017. This included 191 jumbo sellers and 310 sellers from various FHLB districts participating in the FHLB's MPF Direct program.

#### *Net Interest Income*

Net interest income from mortgage banking is primarily comprised of interest income earned on residential loans from the time we purchase the loans to when we sell or securitize them, offset by interest expense incurred on short-term warehouse debt used in part to finance the loans while we hold them on our consolidated balance sheets.

For 2018 and 2017, the \$2 million increase in net interest income for each of these years was primarily due to increased interest income from a higher average balance of loans held-for-sale each consecutive year. These increases were partially offset by higher interest expense on our residential loan warehouse facilities, resulting from rising benchmark interest rates during both 2017 and 2018.

The amount of net interest income we earn on loans held-for-sale is dependent on many variables, including the amount of loans and the time they are outstanding on our consolidated balance sheet and their interest rates, as well as the amount of leverage we employ through the use of short-term debt to finance the loans and the interest rates on that debt. These factors will impact net interest income in future periods.

#### *Mortgage Banking Activities, Net*

Mortgage banking activities, net, includes the changes in market value of both the loans we hold for sale and commitments for loans we intend to purchase (collectively, our loan pipeline), as well as the effect of derivative instruments we utilize to manage risks associated with our loan pipeline. Our loan sale profit margins are measured over the period from when we commit to purchase a loan and subsequently sell or securitize the loan. Accordingly, these profit margins may encompass positive or negative market valuation adjustments on loans, hedging gains or losses associated with our loan pipeline, and any other related transaction expenses, and may be realized over the course of one or more quarters for financial reporting purposes.

The following table presents the components of mortgage banking activities, net. Amounts presented include both the changes in market values for loans that were sold and associated derivative positions that were settled during the periods presented, as well as changes in market values of loans, derivatives and hedges outstanding at the end of each period.

**Table 35 – Components of Mortgage Banking Activities, Net**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Changes in fair value of:					
Residential loans, at fair value <sup>(1)</sup>	\$ 21,808	\$ 69,373	\$ 31,399	\$ (47,565)	\$ 37,974
Single-family rental loans, at fair value	453	—	—	453	—
Sequoia securities	—	—	1,455	—	(1,455)
Risk management derivatives <sup>(2)</sup>	34,739	(17,529)	5,696	52,268	(23,225)
Other income, net <sup>(3)</sup>	2,566	2,064	2,203	502	(139)
<b>Total Mortgage Banking Activities, Net</b>	<b>\$ 59,566</b>	<b>\$ 53,908</b>	<b>\$ 40,753</b>	<b>\$ 5,658</b>	<b>\$ 13,155</b>

(1) Includes changes in fair value for loan purchase and forward sale commitments.

(2) Represents market valuation changes of derivatives that are used to manage risks associated with our accumulation of residential loans.

(3) Amounts in this line include other fee income from loan acquisitions and the provision for repurchase expense, presented net.

The increase in mortgage banking activities, net in 2018 was primarily due to an increase in loan purchase volume on similar gross margins. We define gross margins as net interest income plus income from mortgage banking activities, divided by loan purchase commitments ("LPCs"). LPCs, adjusted for fallout expectations, were \$6.44 billion and \$5.89 billion for the years ended December 31, 2018 and 2017, respectively.

While our overall jumbo loan purchase volumes increased in 2018 relative to 2017, our purchase volumes peaked in the second quarter of 2018 and decreased each consecutive quarter of 2018. Lower projected industry-wide origination volumes and increased competition for loans could result in further volume decreases for us in 2019 and could also result in our gross margins decreasing. Returns on our mortgage banking business in 2019 will also be impacted by our ability to continue diversifying our loan distribution channels and improving distribution timelines. During 2019, we expect to continue reallocating capital from our mortgage banking business into our investment portfolio to optimize our overall returns.

At December 31, 2018, we had a repurchase reserve of \$4 million outstanding related to residential loans sold through this segment. For the years ended December 31, 2018 and 2017, we recorded \$0.3 million and \$0.1 million of reversals of provision for repurchases, respectively, that were included in income from mortgage banking activities, net, in this segment. We review our loan repurchase reserves each quarter and adjust them as necessary based on current information available at each reporting date.

The following table details outstanding principal balances for residential loans held-for-sale by product type at December 31, 2018.

**Table 36 – Characteristics of Residential Loans Held-for-Sale**

<b>December 31, 2018</b> <b>(Dollars in Thousands)</b>	<b>Principal Value</b>	<b>Weighted Average Coupon</b>
<b>First Lien Prime</b>		
Fixed - 30 year	\$ 934,054	4.91%
Fixed - 15 & 20 year	13,086	4.45%
Hybrid	87,144	4.46%
ARM	149	4.45%
<b>Total Outstanding Principal</b>	<u>\$ 1,034,433</u>	

*Operating Expenses and Taxes*

Operating expenses for this segment primarily include costs associated with the underwriting, purchase and sale of residential loans. Operating expenses increased \$3 million during 2018, primarily related to an increase in loan acquisition costs associated with the increase in loan purchase volume in 2018, relative to 2017. Operating expenses increased \$2 million during 2017, primarily related to the increase in loan purchase volume in 2017, as compared with 2016.

All mortgage banking activities are performed at our taxable REIT subsidiary and the provision for income taxes is generally correlated to the amount of this segment's contribution before income taxes in relation to the TRS's overall GAAP income and associated tax provision. For 2018, the increase in the tax provision primarily resulted from increased GAAP earnings at this segment. For additional detail on income taxes, see the "Tax Provision and Taxable Income" section that follows.

*Single-Family Rental Loans Held-for-Sale*

The \$28 million of outstanding single-family rental loans held-for-sale December 31, 2018 were first-lien, fixed-rate loans with maturities of five, seven, or ten years. At December 31, 2018, the weighted average coupon of our single-family rental loans was 5.90% and the weighted average loan term was seven years. At origination, the weighted average LTV ratio of these loans was 64% and the weighted average debt service coverage ratio ("DSCR") was 1.29.

## Results of Consolidated Legacy Sequoia Entities

We sponsored Sequoia securitization entities prior to 2012 that are reported on our consolidated balance sheets for financial reporting purposes in accordance with GAAP. Each of these entities is independent of Redwood and of each other and the assets and liabilities of these entities are not, respectively, owned by us or legal obligations of ours. We record the assets and liabilities of the consolidated Legacy Sequoia entities at fair value, based on the estimated fair value of the debt securities (ABS) issued from the securitizations in accordance with GAAP provisions for collateralized financing entities. At December 31, 2018, the estimated fair value of our investments in the consolidated Legacy Sequoia entities was \$12 million.

The following tables present the statements of income (loss) for the years ended December 31, 2018, 2017, and 2016 and the balance sheets of the consolidated Legacy Sequoia entities at December 31, 2018 and December 31, 2017. All amounts in the statements of income and balance sheets presented below are included in our consolidated financial statements.

**Table 37 – Consolidated Legacy Sequoia Entities Statements of Income (Loss)**

(In Thousands)	Years Ended December 31,			Changes	
	2018	2017	2016	'18/'17	'17/'16
Interest income	\$ 20,036	\$ 19,407	\$ 19,537	\$ 629	\$ (130)
Interest expense	(16,519)	(14,789)	(13,103)	(1,730)	(1,686)
<b>Net interest income</b>	<b>3,517</b>	<b>4,618</b>	<b>6,434</b>	<b>(1,101)</b>	<b>(1,816)</b>
Investment fair value changes, net	(1,016)	(8,027)	(4,200)	7,011	(3,827)
<b>Net Income (Loss) from Consolidated Legacy Sequoia Entities</b>	<b>\$ 2,501</b>	<b>\$ (3,409)</b>	<b>\$ 2,234</b>	<b>\$ 5,910</b>	<b>\$ (5,643)</b>

**Table 38 – Consolidated Legacy Sequoia Entities Balance Sheets**

(In Thousands)	December 31, 2018	December 31, 2017
Residential loans held-for-investment, at fair value	\$ 519,958	\$ 632,817
Other assets	4,911	4,367
<b>Total Assets</b>	<b>\$ 524,869</b>	<b>\$ 637,184</b>
Other liabilities	\$ 571	\$ 537
Asset-backed securities issued, at fair value	512,240	622,445
Total liabilities	512,811	622,982
Equity (fair value of Redwood's retained investments in entities)	12,058	14,202
<b>Total Liabilities and Equity</b>	<b>\$ 524,869</b>	<b>\$ 637,184</b>

### Net Interest Income at Consolidated Legacy Sequoia Entities

The decreases in net interest income in 2018 and 2017 were primarily attributable to the continued pay down of loans at the consolidated entities.

### Investment Fair Value Changes, net at Consolidated Legacy Sequoia Entities

Investment fair value changes, net at consolidated Legacy Sequoia entities includes the change in fair value of the residential loans held-for-investment, REO, and the ABS issued at the entities, which netted together represent the change in value of our retained investments in the consolidated Legacy Sequoia entities. The negative investment fair value changes in each of the years presented was primarily related to a decline in fair value on retained IO securities, as the basis of these assets continue to diminish.

### Residential Loans at Consolidated Legacy Sequoia Entities

The following table provides details of residential loan activity at consolidated Legacy Sequoia entities for the years ended December 31, 2018 and 2017.

**Table 39 – Residential Loans at Consolidated Legacy Sequoia Entities — Activity**

(In Thousands)	Years Ended December 31,	
	2018	2017
Balance at beginning of period	\$ 632,817	\$ 791,636
Principal repayments	(146,210)	(177,353)
Transfers to REO	(4,104)	(4,219)
Changes in fair value, net	37,455	22,753
<b>Balance at End of Period</b>	<b>\$ 519,958</b>	<b>\$ 632,817</b>

First lien adjustable rate mortgage ("ARM") and hybrid loans comprise all of the loans in the consolidated Legacy Sequoia entities and were primarily originated in 2006 or prior. For outstanding loans at consolidated Legacy Sequoia entities at December 31, 2018, the weighted average FICO score of borrowers backing these loans was 728 (at origination) and the weighted average original LTV ratio was 66% (at origination). At December 31, 2018 and December 31, 2017, the unpaid principal balance of loans at consolidated Legacy Sequoia entities delinquent greater than 90 days was \$14 million and \$25 million, respectively, of which the unpaid principal balance of loans in foreclosure was \$5 million and \$10 million, respectively.

### Tax Provision and Taxable Income

#### Tax Provision under GAAP

For the years ended December 31, 2018, 2017, and 2016, we recorded tax provisions of \$11 million, \$12 million, and \$4 million, respectively. Our tax provision is primarily derived from GAAP net income or loss at our TRS, as we do not book a material tax provision associated with income generated at our REIT. Our TRS income is generally earned from our mortgage banking activities, MSRs, and other non-REIT eligible security investments.

#### Taxable Income

The following table summarizes our taxable income and distributions to shareholders for the years ended December 31, 2018, 2017, and 2016. For each of these periods, we had no undistributed REIT taxable income, after the application of net operating loss carryforwards.

**Table 40 – Taxable Income**

(In Thousands except per Share Data)	Years Ended December 31,		
	2018 est. <sup>(1)</sup>	2017	2016
REIT taxable income	\$ 110,092	\$ 90,122	\$ 97,576
Taxable REIT subsidiary income	57,556	31,675	68,792
<b>Total Taxable Income</b>	<b>\$ 167,648</b>	<b>\$ 121,797</b>	<b>\$ 166,368</b>
REIT taxable income per share	\$ 1.38	\$ 1.17	\$ 1.27
Total taxable income per share	\$ 2.12	\$ 1.59	\$ 2.17
Distributions to shareholders	\$ 94,134	\$ 86,271	\$ 86,240
Distributions to shareholders per share	\$ 1.18	\$ 1.12	\$ 1.12

(1) Our tax results for the year ended December 31, 2018 are estimates until we file tax returns for 2018.

### ***Taxable Income Distribution Requirement***

As a REIT, we are required to distribute at least 90% of our taxable income, after the application of available federal net operating loss carryforwards (NOLs), to our shareholders. For 2018, our estimated REIT taxable income of \$110 million exceeded our available NOLs by \$55 million, and therefore our minimum dividend distribution requirement was \$50 million. The following table details our federal NOLs and capital loss carryforwards available as of December 31, 2018.

**Table 41 - Federal Net Operating and Capital Loss Carryforwards**

(In Thousands)	Loss Carryforward Expiration by Period				
	1 to 3 Years	3 to 5 Years	5 to 15 Years	After 15 Years	Total
<b>REIT Loss Carryforwards</b>					
Net operating loss	\$ —	\$ —	\$ —	\$ (38,674)	\$ (38,674)
Capital loss	—	—	—	—	—
<b>Total REIT Loss Carryforwards</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ (38,674)</b>	<b>\$ (38,674)</b>
<b>TRS Loss Carryforwards</b>					
Net operating loss	\$ —	\$ —	\$ —	\$ —	\$ —
Capital loss	—	—	—	—	—
<b>Total TRS Loss Carryforwards</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>

At December 31, 2017, we maintained \$55 million of NOLs at the REIT level. In order to utilize these carryforwards, taxable income must exceed our dividend distributions. During 2018, we distributed \$94 million to shareholders, which was less than our estimated taxable income of \$110 million. We therefore expect to report REIT taxable income on our 2018 federal income tax return after the application of a dividends paid deduction. As a result, we expect \$16 million of our federal NOLs at the REIT level to be utilized in 2018. Federal NOLs at the REIT level do not expire until 2029.

The Tax Act created a limitation on the annual usage of REIT NOLs to 80% of REIT taxable income, effective with respect to NOLs arising in taxable years beginning after December 31, 2017. We do not expect this to materially impact our REIT.

### ***Tax Characteristics of Distributions to Shareholders***

For the year ended December 31, 2018, we declared and distributed four regular quarterly dividends totaling \$94 million (\$1.18 per share). Under the federal income tax rules applicable to REITs, the taxable portion of any distribution to shareholders is determined by (i) taxable income of the REIT, exclusive of the dividends paid deduction and NOLs; and (ii) net capital gains recognized by the REIT, exclusive of capital loss carryforwards. The income or loss generated at our TRS does not directly affect the tax characterization of our dividends.

Our 2018 dividend distributions are expected to be characterized for federal income tax purposes as 69% ordinary dividend income and 31% long-term capital gain dividend income. Under the federal income tax rules applicable to REITs, none of the 2018 dividend distributions are expected to be characterized as a return of capital or qualified dividends.

Beginning in 2018, the Tax Act provides that individual taxpayers may generally deduct 20% of their ordinary REIT dividends from taxable income. This results in a maximum federal effective tax rate of 29.6% on an individual taxpayer's ordinary REIT dividends, compared to the highest marginal rate of 37%. This deduction does not apply to REIT dividends classified as qualified dividends or long-term capital gains dividends, as those dividends are taxed at a maximum rate of 20% for individuals.

### *Differences between Estimated Total Taxable Income and GAAP Income*

Differences between estimated taxable income and GAAP income are largely due to the following: (i) we cannot establish loss reserves for future anticipated events for tax but we can for GAAP, as realized credit losses are expensed when incurred for tax and these losses can be anticipated through lower yields on assets or through loss provisions for GAAP; (ii) the timing, and possibly the amount, of some expenses (e.g., certain compensation expenses) are different for tax than for GAAP; (iii) since amortization and impairments differ for tax and GAAP, the tax and GAAP gains and losses on sales may differ, resulting in differences in realized gains on sale; (iv) at the REIT and certain TRS entities, unrealized gains and losses on market valuation adjustments of loans, securities and derivatives are not recognized for tax until the instrument is sold or extinguished; (v) for tax, basis may not be assigned to mortgage servicing rights retained when whole loans are sold resulting in lower tax gain on sale; (vi) for tax, we do not consolidate securitization entities as we do under GAAP; and, (vii) dividend distributions to our REIT from our TRS are included in REIT taxable income, but not GAAP income. As a result of these differences in accounting, our estimated taxable income can vary significantly from our GAAP income during certain reporting periods.

For tax years beginning after December 31, 2018, the Tax Act may require acceleration of discount accretion for federal income tax purposes for debt instruments with original issue discount. We are evaluating the effects of this change, and currently do not believe these provisions will have a material income tax effect for us.

The tax basis in assets and liabilities at the REIT was \$4.84 billion and \$3.59 billion, respectively, at December 31, 2018. The GAAP basis in assets and liabilities at the REIT was \$9.80 billion and \$8.55 billion, respectively, at December 31, 2018. The primary difference in both the tax and GAAP assets and liabilities is attributable to securitization entities that are consolidated for GAAP reporting purposes but not for tax purposes.

The tables below reconcile our estimated total taxable income to our GAAP income for the years ended December 31, 2018, 2017, and 2016.

**Table 42 – Differences between Estimated Total Taxable Income and GAAP Net Income**

(In Thousands, except per Share Data)	Year Ended December 31, 2018				
	REIT (Est.)	TRS (Est.)	Total Tax (Est.)	GAAP	Differences
Interest income	\$ 212,528	\$ 53,225	\$ 265,753	\$ 378,717	\$ (112,964)
Interest expense	(96,126)	(43,462)	(139,588)	(239,039)	99,451
Net interest income	116,402	9,763	126,165	139,678	(13,513)
Realized credit losses	(1,738)	—	(1,738)	—	(1,738)
Mortgage banking activities, net	—	57,297	57,297	59,566	(2,269)
Investment fair value changes, net	5,513	(518)	4,995	(25,689)	30,684
Operating expenses	(41,140)	(37,750)	(78,890)	(82,782)	3,892
Other income, net	1,353	15,901	17,254	12,874	4,380
Realized gains, net	30,001	13,098	43,099	27,041	16,058
Provision for income taxes	(299)	(235)	(534)	(11,088)	10,554
<b>Net Income</b>	<b>\$ 110,092</b>	<b>\$ 57,556</b>	<b>\$ 167,648</b>	<b>\$ 119,600</b>	<b>\$ 48,048</b>
Income per basic common share	\$ 1.38	\$ 0.74	\$ 2.12	\$ 1.47	\$ 0.65

**Year Ended December 31, 2017**

<b>(In Thousands, except per Share Data)</b>	<b>REIT</b>	<b>TRS</b>	<b>Total Tax</b>	<b>GAAP</b>	<b>Differences</b>
Interest income	\$ 186,214	\$ 38,865	\$ 225,079	\$ 248,057	\$ (22,978)
Interest expense	(59,875)	(29,787)	(89,662)	(108,816)	19,154
Net interest income	126,339	9,078	135,417	139,241	(3,824)
Realized credit losses	(3,442)	—	(3,442)	—	(3,442)
Mortgage banking activities, net	—	44,143	44,143	53,908	(9,765)
Investment fair value changes, net	(16,483)	5,292	(11,191)	10,374	(21,565)
Operating expenses	(41,589)	(31,614)	(73,203)	(77,156)	3,953
Other income, net <sup>(1)</sup>	26,382	4,943	31,325	12,436	18,889
Realized gains, net	(735)	(1)	(736)	13,355	(14,091)
Provision for income taxes	(350)	(166)	(516)	(11,752)	11,236
<b>Net Income</b>	<b>\$ 90,122</b>	<b>\$ 31,675</b>	<b>\$ 121,797</b>	<b>\$ 140,406</b>	<b>\$ (18,609)</b>

Income per basic common share	\$ 1.17	\$ 0.42	\$ 1.59	\$ 1.60	\$ (0.01)
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(1) For 2017, other income at the REIT is primarily comprised of dividend income from our TRS.

**Year Ended December 31, 2016**

<b>(In Thousands, except per Share Data)</b>	<b>REIT</b>	<b>TRS</b>	<b>Total Tax</b>	<b>GAAP</b>	<b>Differences</b>
Interest income	\$ 199,969	\$ 33,289	\$ 233,258	\$ 246,355	\$ (13,097)
Interest expense	(48,534)	(27,862)	(76,396)	(88,528)	12,132
Net interest income	151,435	5,427	156,862	157,827	(965)
Reversal of provision for loan losses	—	—	—	7,102	(7,102)
Realized credit losses	(7,989)	—	(7,989)	—	(7,989)
Mortgage banking activities, net	—	26,477	26,477	38,691	(12,214)
Investment fair value changes, net	(2,277)	(8,133)	(10,410)	(28,574)	18,164
Operating expenses	(44,950)	(43,466)	(88,416)	(88,786)	370
Other income, net	1,386	88,329	89,715	20,691	69,024
Realized gains, net	—	284	284	28,009	(27,725)
Provision for income taxes	(29)	(126)	(155)	(3,708)	3,553
<b>Net Income</b>	<b>\$ 97,576</b>	<b>\$ 68,792</b>	<b>\$ 166,368</b>	<b>\$ 131,252</b>	<b>\$ 35,116</b>
Income per basic common share	\$ 1.27	\$ 0.90	\$ 2.17	\$ 1.54	\$ 0.63

**Potential Taxable Income Volatility**

We expect period-to-period volatility in our estimated taxable income. A description of the factors that can cause this volatility is provided below.

**Recognition of Gains and Losses on Sale**

Since the computation of amortization and impairments on assets may differ for tax and GAAP and many of our assets held for investment purposes are marked-to-market for GAAP, but not for tax, the tax and GAAP basis on assets sold or called may differ, resulting in differences in gains and losses on sale or call. In addition, capital losses in excess of capital gains are generally disallowed and carry forward to future tax years. Subsequent capital gains realized for tax may be offset by prior capital losses and, thus, not affect taxable income. At December 31, 2018, we had no capital loss carryforwards at the REIT or TRS level.

### ***Prepayments on Securities***

We have retained certain IO securities since the time they were issued from Sequoia securitizations we sponsored and purchased additional third-party IO securities. Our tax basis in these securities was \$148 million at December 31, 2018. The return on IOs is sensitive to prepayments and, to the extent prepayments vary period to period, income from these IOs will vary. Typically, fast prepayments reduce yields and slow prepayments increase yields. We are not permitted to recognize a negative yield under tax accounting rules, so during periods of fast prepayments our periodic premium expense for tax purposes can be relatively low and the tax cost basis for these securities may not be significantly reduced. Currently, our tax basis is above the fair values for these IOs in the aggregate. If a securitization is called, the remaining tax basis in the IO is expensed, creating an ordinary loss at the call date.

Prepayments also affect the taxable income recognition on other securities we own. For tax purposes, we are required to use particular prepayment assumptions for the remaining lives of each security. As actual prepayment speeds vary, the yield we recognize for tax purposes will be adjusted accordingly. Thus, to the extent actual prepayments differ from our long-term assumptions or vary from period to period, the yield recognized will also vary and this difference could be material.

### ***Credit Losses on Securities and Loans***

To determine estimated taxable income, we are generally not permitted to anticipate, or reserve for, credit losses on investments which are generally purchased at a discount. For tax purposes, we accrue the entire purchase discount on a security into taxable income over the expected life of the security. Estimated taxable income is reduced when actual credit losses occur. As we have no credit reserves or allowances for tax, any future credit losses on securities or loans will have a more significant impact on tax earnings than on GAAP earnings and may create significant taxable income volatility to the extent the level of credit losses fluctuates during reporting periods. Credit losses are based on our tax basis, which differs from our basis for GAAP purposes. We anticipate an additional \$18 million of credit losses for tax on securities, based on our projection of principal balance losses and assuming a similar tax basis as we have recently experienced, although the timing of actual losses is difficult to accurately project.

Our estimated total taxable income for the years ended December 31, 2018, 2017, and 2016 included \$2 million, \$3 million, and \$8 million, respectively, in realized credit losses on investments.

### ***Compensation Expense***

The total tax expense for equity award compensation is dependent upon varying factors such as the timing of payments of dividend equivalent rights, the distribution of deferred stock units and performance stock units, and the cash deferrals to and withdrawals from our Executive Deferred Compensation Plan. For GAAP purposes, the total expense associated with an equity award is determined at the award date and is recognized over the vesting period. For tax, the total expense is recognized at the date of distribution or exercise, not the award date. In addition, some compensation may not be deductible for tax if it exceeds certain levels. An exception may apply to performance-based compensation that is paid pursuant to a written and binding contract in effect before November 2, 2017. Thus, the total amount of compensation expense, as well as the timing, could be significantly different for tax than for GAAP.

As an example, for GAAP we expense the grant date fair value of performance stock units (PSUs) granted over the vesting term of those PSUs (regardless of the degree to which the performance conditions for vesting are ultimately satisfied, if at all), whereas for tax the value of the PSUs that actually vest in accordance with the performance conditions of those awards and are subsequently distributed to the award recipient is recorded as an expense on the date of distribution. For example, if no PSUs under a particular grant ultimately vest, due to the failure to satisfy the performance conditions, no tax expense will be recorded for those PSUs, even though we would have already recorded expense for GAAP equal to the grant date fair value of the PSU awards. Conversely, for example, if performance is such that a number of shares of common stock equal to 200% of the PSU award ultimately vest and are delivered to the award recipient, expense for tax will equal the common stock value on the date of distribution of 200% of the number of PSUs originally granted. This expense for tax could significantly exceed the recorded expense for GAAP.

In addition, since the timing of distributions of deferred stock units, performance stock units, or cash out of the Executive Deferred Compensation Plan is based on employees' deferral elections, it can be difficult to project when the tax expense will occur.



### ***Mortgage Servicing Rights***

For GAAP purposes, we recognize MSRs through the direct acquisition of servicing rights from third parties or through the retention of MSRs associated with residential loans that we have acquired and subsequently sold to non-consolidated securitization entities or to third parties. For tax purposes, basis in our MSR assets is recognized through the direct acquisition of servicing rights from third parties, or to the extent that a retained MSR entitles us to receive a servicing fee in excess of so-called normal servicing (or the right to receive reasonable compensation for services to be performed under the mortgage servicing contract). Tax basis in our normal MSR assets is not recognized when MSRs are retained from sales of loans to non-consolidated securitization entities or to third parties, thereby creating a favorable temporary GAAP to tax difference from sale of the loans. For the year ended December 31, 2018, we retained \$1 million of MSRs from jumbo loan sales for which no tax basis was recognized. No other tax basis in our MSR assets was recognized in 2018.

For GAAP purposes, mortgage servicing fee income, net of servicing expense, as well as changes in the estimated fair value of our MSRs, is recognized on our consolidated statements of income over the life of the MSR asset. For tax purposes, only mortgage servicing fee income, net of servicing expense is recognized as taxable income. Any MSR where basis is recognized for tax purposes through acquisition is amortized as a tax expense over a finite life.

Periodic changes in the market values of MSRs are recorded through the income statement for GAAP purposes, but not for tax purposes. Only when MSRs are sold will a tax gain or loss be recognized. As tax basis is not recognized for retained MSRs and the rules for writing-off tax basis of purchased MSRs are restrictive, the tax gain from the sale of MSRs can be substantial. For the year ended December 31, 2018, we recognized a tax gain of less than \$1 million from the sale of MSRs. Future sales of MSRs could result in significant tax gains.

## **LIQUIDITY AND CAPITAL RESOURCES**

### **Summary**

In addition to the proceeds from equity and debt capital-raising transactions, our principal sources of cash consist of borrowings under mortgage loan warehouse facilities, securities repurchase agreements, payments of principal and interest we receive from our investment portfolios, and cash generated from our operating activities. Our most significant uses of cash are to purchase mortgage loans for our mortgage banking operations, to fund investments in residential loans, to purchase investment securities and make other investments, to repay principal and interest on our warehouse facilities, repurchase agreements, and long-term debt, to make dividend payments on our capital stock, and to fund our operations.

Our total capital was \$2.12 billion at December 31, 2018, and included \$1.35 billion of equity capital and \$0.77 billion of convertible notes and other long-term debt, including \$201 million of exchangeable debt due in 2019, \$245 million of convertible debt due in 2023, \$200 million of convertible debt due in 2024, and \$140 million of trust-preferred securities due in 2037.

At December 31, 2018, we held \$176 million of cash and estimate we had approximately \$115 million of borrowing capacity available under our mortgage loan warehouse facilities, based on the unencumbered loans we held at year-end. At December 31, 2018, this cash and liquidity capital included approximately \$85 million of capital we designate as available for investment. Additionally, in January of 2019, we raised \$177 million of equity capital through an underwritten public offering.

While we believe our available capital is sufficient to fund our currently contemplated investment activities and repay existing debt, we may raise capital from time to time to make long-term investments or for other purposes. To the extent we seek additional capital to fund our operations and investment activities, our approach to raising capital will continue to be based on what we believe to be in the best long-term interests of shareholders.

We are subject to risks relating to our liquidity and capital resources, including risks relating to incurring debt under residential loan warehouse facilities, securities repurchase facilities, and other short- and long-term debt facilities and other risks relating to our use of derivatives. A further discussion of these risks is set forth below under the heading “*Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities*” and in Part I, Item 1A - Risk Factors of this Annual Report on Form 10-K.

### ***Cash Flows and Liquidity for the Year Ended December 31, 2018***

Cash flows from our mortgage banking activities and our investments can be volatile from quarter to quarter depending on many factors, including the timing and amount of loan and securities acquisitions and sales and repayments, the profitability of mortgage banking activities, as well as changes in interest rates, prepayments, and credit losses. Therefore, cash flows generated in the current period are not necessarily reflective of the long-term cash flows we will receive from these investments or activities.

### ***Cash Flows from Operating Activities***

Cash flows from operating activities were negative \$1.61 billion in 2018. This amount includes the net cash utilized during the period from the purchase and sale of residential mortgage loans associated with our mortgage banking activities. Purchases of loans are financed to a large extent with short-term debt, for which changes in cash are included as a component of financing activities. Excluding cash flows from the purchase, sale, and principal payments of loans classified as held-for-sale, cash flows from operating activities were positive \$100 million in 2018, positive \$37 million in 2017, and positive \$135 million in 2016.

### ***Cash Flows from Investing Activities***

During 2018, our net cash used in investing activities was \$13 million and primarily resulted from purchases of real estate securities and cash outflows for other new investments we have made this year. These cash outflows were almost entirely offset by principal payments on loans held-for-investment at Redwood and at our consolidated entities, principal payments from, and proceeds from net sales of, real estate securities. Although we generally intend to hold our investment securities as long-term investments, we may sell certain of these securities in order to manage our interest rate risk and liquidity needs, to meet other operating objectives, and to adapt to market conditions. We cannot predict the timing and impact of future sales of investment securities, if any.

Because many of our investment securities are financed through repurchase agreements, a significant portion of the proceeds from any sales or principal payments of our investment securities could be used to repay balances under these financing sources. Similarly, all or a significant portion of cash flows from principal payments of loans at consolidated securitization entities would generally be used to repay ABS issued by those entities.

As presented in the "Supplemental Noncash Information" subsection of our consolidated statements of cash flows, during 2018, 2017, and 2016, we transferred residential loans between held-for-sale and held-for-investment classification, retained securities from Sequoia securitizations we sponsored, and consolidated certain multifamily and re-performing residential securitization trusts which represent significant non-cash transactions that were not included in cash flows from investing activities.

### ***Cash Flows from Financing Activities***

During 2018, our net cash provided by financing activities was \$1.68 billion. This primarily resulted from proceeds of \$1.66 billion from the issuance of asset-backed securities from our Sequoia Choice securitizations, proceeds of \$199 million from the issuance of convertible debt in June 2018, and \$143 million from the issuance of common stock in July and December 2018. These cash inflows were partially offset by \$459 million of repayments of ABS issued and the distribution of \$97 million of dividends.

In February 2019, the Board of Directors declared a regular dividend of \$0.30 per share for the first quarter of 2019, which is payable on March 29, 2019 to shareholders of record on March 15, 2019.

In accordance with the terms of our outstanding deferred stock units, which are stock-based compensation awards, each time we declare and pay a dividend on our common stock, we are required to make a dividend equivalent payment in that same per share amount on each outstanding deferred stock unit.

### ***Repurchase Authorization***

In February 2016, our Board of Directors approved an authorization for the repurchase of up to \$100 million of our common stock and also authorized the repurchase of outstanding debt securities, including convertible and exchangeable debt. This authorization replaced all previous share repurchase plans and has no expiration date. At December 31, 2017, approximately \$77 million of this current authorization remained available for the repurchase of shares of our common stock. During January 2018, we repurchased 1,040,829 shares of our common stock pursuant to this authorization for \$16 million.

In February 2018, our Board of Directors approved an authorization for the repurchase of our common stock, increasing the total amount authorized for repurchases of common stock to \$100 million, and also authorized the repurchase of outstanding debt securities, including convertible and exchangeable debt. As noted above, this authorization increased the previous share repurchase authorization approved in February 2016 and has no expiration date. This repurchase authorization does not obligate us to acquire any specific number of shares or securities. Under this authorization, shares or securities may be repurchased in privately negotiated and/or open market transactions, including under plans complying with Rule 10b5-1 under the Securities Exchange Act of 1934, as amended. At December 31, 2018, \$100 million of the current authorization remained available for the repurchase of shares of our common stock. Like other investments we may make, any repurchases of our common stock or debt securities under this authorization would reduce our available capital described above.

## Short-Term Debt

In the ordinary course of our business, we use recourse debt through several different types of borrowing facilities and use cash borrowings under these facilities to, among other things, fund the acquisition of residential loans (including those we acquire and originate in anticipation of securitization), finance investments in securities and other investments, and otherwise fund our business and operations.

At December 31, 2018, we had four short-term residential loan warehouse facilities with a total outstanding debt balance of \$861 million (secured by residential loans with an aggregate fair value of \$935 million) and a total uncommitted borrowing limit of \$1.43 billion. In addition, at December 31, 2018, we had an aggregate outstanding short-term debt balance of \$989 million under nine securities repurchase facilities, which were secured by securities with a fair market value of \$844 million. In addition, at December 31, 2018, the fair value of our real estate securities pledged as collateral included \$130 million of securities retained from our consolidated Sequoia Choice securitizations, as well as \$229 million and \$18 million of securities we owned that were issued by consolidated Freddie Mac SLST and Freddie Mac K-Series securitizations, respectively. We also had a secured line of credit with no outstanding debt balance and a total borrowing limit of \$10 million (secured by securities with a fair market value of \$4 million) at December 31, 2018.

To finance our business purpose residential loan investments, at December 31, 2018, we had two single-family rental loan warehouse facilities with a total outstanding debt balance of \$22 million (secured by single-family rental loans with an aggregate fair value of \$28 million) and a total uncommitted borrowing limit of \$400 million. In addition, at December 31, 2018, we had two residential bridge loan warehouse facilities with a total outstanding debt balance of \$66 million (secured by residential bridge loans with an aggregate fair value of \$98 million) and a total uncommitted borrowing limit of \$80 million.

Servicer advance financing consists of non-recourse short-term securitization debt used to finance servicer advance investments we made in the fourth quarter of 2018. At December 31, 2018, the fair value of servicer advances pledged as collateral was \$287 million. At December 31, 2018, the accrued interest payable balance on this debt was \$0.5 million and the unamortized capitalized commitment costs were \$3.0 million.

During the fourth quarter of 2018, \$201 million principal amount of 5.625% exchangeable senior notes and \$1 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt as the maturity of the notes was less than one year as of November 2018. At December 31, 2018, the outstanding principal amount of these notes was \$201 million.

During 2018, the highest balance of our short-term debt outstanding was \$2.49 billion.

## Long-Term Debt

### *FHLBC Borrowings*

In July 2014, our FHLB-member subsidiary entered into a borrowing agreement with the Federal Home Loan Bank of Chicago. At December 31, 2018, under this agreement, our subsidiary could incur borrowings up to \$2.00 billion, also referred to as “advances,” from the FHLBC secured by eligible collateral, including, but not limited to residential mortgage loans. During the year ended December 31, 2018, our FHLB-member subsidiary made no additional borrowings under this agreement. Under a final rule published by the Federal Housing Finance Agency in January 2016, our FHLB-member subsidiary will remain an FHLB member through a five-year transition period for captive insurance companies. Our FHLB-member subsidiary's existing \$2.00 billion of FHLB debt, which matures beyond this transition period, is permitted to remain outstanding until stated maturity. As residential loans pledged as collateral for this debt pay down, we are permitted to pledge additional loans or other eligible assets to collateralize this debt; however, we do not expect to be able to increase our subsidiary's FHLB debt above the existing \$2.00 billion maximum.

At December 31, 2018, \$2.00 billion of advances were outstanding under this agreement, which were classified as long-term debt, with a weighted average interest rate of 2.52% per annum and a weighted average maturity of seven years. At December 31, 2018, accrued interest payable on these borrowings was \$8 million. Advances under this agreement are charged interest based on a specified margin over the FHLBC's 13-week discount note rate, which resets every 13 weeks. Our total advances under this agreement were secured by residential mortgage loans with a fair value of \$2.38 billion at December 31, 2018. This agreement also requires our subsidiary to purchase and hold stock in the FHLBC in an amount equal to a specified percentage of outstanding advances. At December 31, 2018, our subsidiary held \$43 million of FHLBC stock that is included in Other assets on our consolidated balance sheets.

### ***Convertible Notes***

In June 2018, we issued \$200 million principal amount of 5.625% convertible senior notes due 2024 at an issuance price of 99.5%. After deducting the issuance discount, the underwriting discount and offering costs, we received approximately \$194 million of net proceeds. Including amortization of deferred debt issuance costs and the debt discount, the weighted average interest expense yield on these convertible notes is approximately 6.2% per annum. At December 31, 2018, the outstanding principal amount of these notes was \$200 million and the accrued interest payable on this debt was \$6 million.

In August 2017, we issued \$245 million principal amount of 4.75% convertible senior notes due 2023. After deducting the underwriting discount and issuance costs, we received approximately \$238 million of net proceeds. Including amortization of deferred debt issuance costs, the weighted average interest expense yield on these convertible notes is approximately 5.3% per annum. At December 31, 2018, the outstanding principal amount of these notes was \$245 million and the accrued interest payable balance on this debt was \$4 million.

In November 2014, one of our taxable subsidiaries issued \$205 million principal amount of 5.625% exchangeable senior notes due 2019. After deducting the underwriting discount and issuance costs, we received approximately \$198 million of net proceeds. Including amortization of deferred debt issuance costs, the weighted average interest expense yield on these exchangeable notes is approximately 6.3% per annum. During the year ended December 31, 2016, we repurchased \$4 million par value of these notes at a discount and recorded a gain on extinguishment of debt of \$0.3 million in Realized gains, net on our consolidated statements of income. During the fourth quarter of 2018, \$201 million principal amount of 5.625% exchangeable senior notes and \$1 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt as the maturity of the notes was less than one year as of November 2018. At December 31, 2018, the outstanding principal amount of these notes was \$201 million and the accrued interest payable balance on this debt was \$1 million.

In March 2013, we issued \$288 million principal amount of 4.625% convertible senior notes due 2018. After deducting the underwriting discount and issuance costs, we received approximately \$279 million of net proceeds. Including amortization of deferred debt issuance costs, the weighted average interest expense yield on these convertible notes was approximately 4.8% per annum. During the second quarter of 2017, \$288 million principal amount of these convertible notes and \$2 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt, as the maturity of the notes was less than one year as of April 2017. Additionally, during the second quarter of 2017, we repurchased \$37 million par value of these notes at a premium and recorded a loss on extinguishment of debt of \$1 million in Realized gains, net on our consolidated statements of income. In April 2018, we repaid these \$250 million convertible notes and all related accrued interest in full.

### ***Trust Preferred Securities and Subordinated Notes***

At December 31, 2018, we had trust preferred securities and subordinated notes outstanding of \$100 million and \$40 million, respectively, issued by us in 2006 and 2007. This debt requires quarterly interest payments at a floating rate equal to three-month LIBOR plus 2.25% and must be redeemed no later than 2037. Prior to 2014, we entered into interest rate swaps with aggregate notional values totaling \$140 million to hedge the variability in this long-term debt interest expense. Including hedging costs and amortization of deferred debt issuance costs, the weighted average interest expense yield on our trust preferred securities and subordinated notes is approximately 6.88% per annum. These swaps are accounted for as cash flow hedges with all interest recorded as a component of net interest income and other valuation changes recorded as a component of equity.

### ***Asset-Backed Securities***

At December 31, 2018, there were \$545 million (principal balance) of loans owned at consolidated Legacy Sequoia securitization entities, which were funded with \$540 million (principal balance) of ABS issued at these entities. At December 31, 2018, there were \$2.04 billion (principal balance) of loans owned at consolidated Sequoia Choice securitization entities, which was funded with \$1.84 billion (principal balance) of ABS issued at these entities. At December 31, 2018, there were \$1.31 billion (principal balance) of loans owned at the consolidated Freddie Mac SLST securitization entity, which was funded with \$994 million (principal balance) of ABS issued at this entity. At December 31, 2018, there were \$2.13 billion (principal balance) of loans owned at consolidated Freddie Mac K-Series securitization entities, which was funded with \$1.94 billion (principal balance) of ABS issued at these entities. The loans and ABS issued from these entities are reported at estimated fair value. See the subsections titled "Residential Loans at Sequoia Choice Investment Portfolio," "Results of Consolidated Legacy Sequoia Entities," "Residential Loans at Freddie Mac SLST Investment Portfolio," and "Multifamily Loans at Freddie Mac K-Series Investment Portfolio" in the Results of Operations section of this MD&A for additional details on these entities.

## Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities

As described above under the heading “*Results of Operations*,” in the ordinary course of our business, we use debt financing obtained through several different types of borrowing facilities to, among other things, finance the acquisition of residential mortgage loans (including those we acquire in anticipation of sale or securitization), and finance investments in securities and other investments. We may also use short- and long-term borrowings to fund other aspects of our business and operations, including the repurchase of shares of our common stock. Debt incurred under these facilities is generally either the direct obligation of Redwood Trust, Inc., or the direct obligation of subsidiaries of Redwood Trust, Inc. and guaranteed by Redwood Trust, Inc.

*Residential and Business Purpose Loan Warehouse Facilities* One source of our short-term debt financing is secured borrowings under residential loan warehouse facilities that, as of December 31, 2018, were in place with four different financial institution counterparties. In addition, as of December 31, 2018, we had business purpose loan warehouse facilities, including two facilities secured by single-family rental loans and two facilities secured by residential bridge loans, in place with four financial institution counterparties. Under the four residential loan warehouse facilities, we had an aggregate borrowing limit of \$1.43 billion at December 31, 2018, and under the four business purpose loan warehouse facilities we had an aggregate borrowing limit of \$480 million at December 31, 2018. However, these facilities (except the two business purpose loan warehouse facilities secured by residential bridge loans) are uncommitted, which means that any request we make to borrow funds under these facilities may be declined for any reason, even if at the time of the borrowing request we have then-outstanding borrowings that are less than the borrowing limits under these facilities. Short-term financing for residential or business purpose mortgage loans is obtained under these facilities by our transfer of mortgage loans to the counterparty in exchange for cash proceeds (in an amount less than 100% of the principal amount of the transferred mortgage loans), and our covenant to reacquire those loans from the counterparty for the same amount plus a financing charge.

In order to obtain financing for a residential or business purpose loan under these facilities, the loan must initially (and continuously while the financing remains outstanding) meet certain eligibility criteria, including, without limitation, that the loan is not in a delinquent status. In addition, under these warehouse facilities, residential or business purpose loans can only be financed for a maximum period, which period would not generally exceed 364 days. We generally intend to repay the short-term financing of a loan under one of these facilities at or prior to the expiration of that financing with the proceeds of a securitization or other sale of that loan, through the proceeds of other short-term borrowings, or with other equity or long-term debt capital. While a residential or business purpose loan is financed under a warehouse facility, to the extent the market value of the loan declines (which market value is generally determined by the counterparty under the facility), we are required to either immediately reacquire the loan or meet a margin requirement to pledge additional collateral, such as cash or additional residential loans, in an amount at least equal to the decline in value. See further discussion below under the heading “*Margin Call Provisions Associated with Short-Term Debt and Other Debt Financing*”

Because these warehouse facilities are uncommitted (except the two business purpose loan warehouse facilities secured by residential bridge loans), at any given time we may not be able to obtain additional financing under them when we need it, exposing us to, among other things, liquidity risks of the types described in Part I, Item 1A of this Annual Report on Form 10-K under the heading “*Risk Factors*,” and in Part II, Item 7A of this Annual Report on Form 10-K under the heading “*Market Risks*.” In addition, with respect to residential or business purpose loans that at any given time are already being financed through these warehouse facilities, we are exposed to market, credit, liquidity, and other risks of the types described in Part I, Item 1A of this Annual Report on Form 10-K under the heading “*Risk Factors*,” and in Part II, Item 7A of this Annual Report on Form 10-K under the heading “*Market Risks*,” if and when those loans become ineligible to be financed, decline in value, or have been financed for the maximum term permitted under the applicable facility.

Under our residential and business purpose loan warehouse facilities, we also make various representations and warranties and have agreed to certain covenants, events of default, and other terms that if breached or triggered can result in our being required to immediately repay all outstanding amounts borrowed under these facilities and these facilities being unavailable to use for future financing needs. In particular, the terms of these facilities include financial covenants, cross-default provisions, judgment default provisions, and other events of default (such as, for example, events of default triggered by one of the following: a change in control over Redwood, regulatory investigation or enforcement action against Redwood, Redwood’s failure to continue to qualify as a REIT for tax purposes, or Redwood’s failure to maintain the listing of its common stock on the New York Stock Exchange). Under a cross-default provision, an event of default is triggered (and the warehouse facility becomes unavailable and outstanding amounts borrowed thereunder become due and payable) if an event of default or similar event occurs under another borrowing or credit facility we maintain in excess of a specified amount. Under a judgment default provision, an event of default is triggered (and the warehouse facility becomes unavailable and outstanding amounts borrowed thereunder become due and payable) if a judgment for damages in excess of a specified amount is entered against us in any litigation and we are unable to promptly satisfy the judgment. Financial covenants included in these warehouse facilities are further described below under the heading “*Financial Covenants Associated with Short-Term Debt and Other Debt Financing*.”

These residential and business purpose loan warehouse facilities could also become unavailable and outstanding amounts borrowed thereunder could become immediately due and payable if there is a material adverse change in our business. If we breach or trigger the representations and warranties, covenants, events of default, or other terms of our warehouse facilities, we are exposed to liquidity and other risks, including of the type described in Part I, Item 1A of this Annual Report on Form 10-K under the heading “*Risk Factors*,” and in Part II, Item 7A of this Annual Report on Form 10-K under the heading “*Market Risks*.”

In addition to the residential and business purpose loan warehouse facilities described above, in the ordinary course of business we may seek to establish additional warehouse facilities that may be of a similar or greater size and may have similar or more restrictive terms. In the event a counterparty to one or more of our warehouse facilities becomes insolvent or unable or unwilling to perform its obligations under the facility, we may be unable to access short-term financing we need or fail to recover the full value of our residential mortgage loans financed.

***Securities Repurchase Facilities.*** Another source of short-term debt financing is through securities repurchase facilities we have established with various different financial institution counterparties. Under these facilities we do not have an aggregate borrowing limit; however, these facilities are uncommitted, which means that any request we make to borrow funds under these facilities may be declined for any reason. Short-term financing for securities is obtained under these facilities by our transfer of securities to the counterparty in exchange for cash proceeds (in an amount less than 100% of the fair value of the transferred securities), and our covenant to reacquire those securities from the counterparty for the same amount plus a financing charge.

Under these securities repurchase facilities, securities are financed for a fixed period, which would not generally exceed 90 days. We generally intend to repay the short-term financing of a security under one of these facilities through a renewal of that financing with the same counterparty, through a sale of the security, or with other equity or long-term debt capital. While a security is financed under a securities repurchase facility, to the extent the value of the security declines (which value is generally determined by the counterparty under the facility), we are required to either immediately reacquire the security or meet a margin requirement to pledge additional collateral, such as cash or U.S. Treasury securities, in an amount at least equal to the decline in value. See further discussion below under the heading “*Margin Call Provisions Associated with Short-Term Debt and Other Debt Financing*.”

At the end of the fixed period applicable to the financing of a security under a securities repurchase facility, if we intend to continue to obtain financing for that security we would typically request the same counterparty to renew the financing for an additional fixed period. If the same counterparty does not renew the financing, it may be difficult for us to obtain financing for that security under one of our other securities repurchase facilities, due to the fact that the financial institution counterparties to our securities repurchase facilities generally only provide financing for securities that we purchased from them or one of their affiliates.

Because our securities repurchase facilities are uncommitted, at any given time we may not be able to obtain additional financing under them when we need it, exposing us to, among other things, liquidity risks of the types described in Part I, Item 1A of this Annual Report on Form 10-K under the heading “*Risk Factors*,” and in Part II, Item 7A of this Annual Report on Form 10-K under the heading “*Market Risks*.” In addition, with respect to securities that at any given time are already being financed through our securities repurchase facilities, we are exposed to market, credit, liquidity, and other risks of the types described in Part I, Item 1A of this Annual Report on Form 10-K under the heading “*Risk Factors*,” and in Part II, Item 7A of this Annual Report on Form 10-K under the heading “*Market Risks*,” if and when those securities decline in value, or have been financed for the maximum term permitted under the applicable facility.

Under our securities repurchase facilities, we also make various representations and warranties and have agreed to certain covenants, events of default, and other terms (including of the type described above under the heading “*Residential Loan Warehouse Facilities*”) that if breached or triggered can result in our being required to immediately repay all outstanding amounts borrowed under these facilities and these facilities being unavailable to use for future financing needs. In particular, the terms of these facilities include financial covenants, cross-default provisions, judgment default provisions, and other events of default (including of the type described above under the heading “*Residential Loan Warehouse Facilities*”). Financial covenants included in our repurchase facilities are further described below under the heading “*Financial Covenants Associated with Short-Term Debt and Other Debt Financing*.”

Our securities repurchase facilities could also become unavailable and outstanding amounts borrowed thereunder could become immediately due and payable if there is a material adverse change in our business. If we breach or trigger the representations and warranties, covenants, events of default, or other terms of our securities repurchase facilities, we are exposed to liquidity and other risks, including of the type described in Part I, Item 1A of this Annual Report on Form 10-K under the heading “*Risk Factors*,” and in Part II, Item 7A of this Annual Report on Form 10-K under the heading “*Market Risks*.”

In the ordinary course of business we may seek to establish additional securities repurchase facilities that may have similar or more restrictive terms. In the event a counterparty to one or more of our securities repurchase facilities becomes insolvent or unable or unwilling to perform its obligations under the facility, we may be unable to access the short-term financing we need or fail to recover the full value of our securities financed.

**Other Short-Term Debt Facility.** We also maintain a \$10 million committed line of short-term credit from a bank, which is secured by our pledge of certain mortgage-backed securities we own. This bank line of credit is an additional source of short-term financing for us. Similar to the uncommitted warehouse and securities repurchase facilities described herein, under this committed line we make various representations and warranties and have agreed to certain covenants, events of default, and other terms that if breached or triggered can result in our being required to immediately repay all outstanding amounts borrowed under this facility and this facility being unavailable to use for future financing needs. The margin call provisions and financial covenants included in this committed line are further described below under the headings “*Margin Call Provisions Associated with Short-Term Debt and Other Debt Financing*” and “*Financial Covenants Associated with Short-Term Debt and Other Debt Financing*” When we use this committed line to incur short-term debt we are exposed to the market, credit, liquidity, and other types of risks described above with respect to residential loan warehouse and securities repurchase facilities.

**Servicer Advance Financing.** In connection with our servicer advance investments, we consolidate an entity that was formed to finance servicing advances and for which we, through our control of an affiliated entity (the “SA Buyer”) formed to invest in servicer advance investments and excess MSR, are the primary beneficiary. The servicer advance financing consists of non-recourse short-term securitization debt, secured by servicer advances. We consolidate the securitization entity that issued the debt, but the securitization entity is independent of Redwood and the assets and liabilities are not owned by and are not legal obligations of Redwood.

SA Buyer has agreed to purchase all future arising servicer advances under certain residential mortgage servicing agreements. SA Buyer relies, in part, on its members to make committed capital contributions in order to pay the purchase price for future servicer advances. A failure by any or all of the members to make such capital contributions for amounts required to fund servicer advances could result in an event of default under our servicer advance financing and a complete loss of our investment in SA Buyer and its servicer advance investments and excess MSR. Additionally, to the extent that the servicer of the underlying mortgage loans (who is unaffiliated with us except through its co-investment in SA Buyer and the securitization entity) fails to recover the servicer advances in which we have invested, or takes longer than we expect to recover such advances, the value of our investment could be adversely affected and we could fail to achieve our expected return and suffer losses.

The outstanding balance of servicer advances securing the financing is not likely to be repaid on or before the maturity date of such financing arrangement. We expect to request the same counterparty or another one of our financing sources to renew or refinance the financing for an additional fixed period; however, there can be no assurance that we will be able to extend the financing arrangement upon the expiration of its stated term, which subjects us to a number of risks. A financing source that elects to extend or refinance may charge higher interest rates and impose more onerous terms upon us, including without limitation, lowering the amount of financing that can be extended against the servicer advances being financed. If we are unable to renew or refinance the servicer advance financing, the securitization entity will be required to repay the outstanding balance of the financing on the related maturity date. Additionally, there may be substantial increases in the interest rates under the financing arrangement if the debt is not repaid, extended or refinanced prior to the expected repayment date, which may be before the related maturity date. If the securitization entity is unable to pay the outstanding balance of the notes, the financing counterparty may foreclose on the servicer advances pledged as collateral.

Under this servicer advance financing, the consolidated partnership (SA Buyer) and the securitization entity, along with the servicer, make various representations and warranties and have agreed to certain covenants, events of default, and other terms that if breached or triggered can result in acceleration of all outstanding amounts borrowed under this facility and this facility being unavailable to use for future financing needs. We do not have the direct ability to control the servicer’s compliance with such covenants and tests and the failure of SA Buyer, the securitization entity, or the servicer to satisfy any such covenants or tests could result in a partial or total loss on our investment. The financial covenants of SA Buyer included in this servicer advance financing are further described below under the heading “*Financial Covenants Associated with Short-Term Debt and Other Debt Financing*.”

**FHLB Borrowing Facility:** Our wholly-owned subsidiary, RWT Financial, LLC, is a party to a secured borrowing facility with the Federal Home Loan Bank of Chicago (FHLBC) that was put into place in July 2014. Borrowings under this facility, also referred to as “advances,” are required to be secured by eligible collateral including, but not limited to, residential mortgage loans and residential mortgage-backed securities. Under a final rule published by the Federal Housing Finance Agency in January 2016, our FHLB-member subsidiary will remain an FHLB member through the five-year transition period for captive insurance companies. Our FHLB-member subsidiary's existing \$2.00 billion of FHLB debt, which matures beyond this transition period, is permitted to remain outstanding until stated maturity. As residential loans pledged as collateral for this debt pay down, we are permitted to pledge additional loans or other eligible assets to collateralize this debt; however, we do not expect to be able to increase our subsidiary's FHLB debt above the existing \$2.00 billion maximum. At December 31, 2018, \$2.00 billion of advances were outstanding under this facility.

Similar to the uncommitted warehouse and securities repurchase facilities described herein, under this facility we make various representations and warranties and have agreed to certain covenants, events of default, and other terms that if breached or triggered can result in our being required to immediately repay all outstanding amounts borrowed under this facility. In particular, the terms of this facility permit the acceleration of the amortization of amounts borrowed through the facility if the FHLBC determines, in its sole discretion, that our creditworthiness or the creditworthiness of our FHLB-member subsidiary does not meet the minimum requirements of the FHLBC. Outstanding amounts borrowed under this facility could become immediately due and payable if the FHLBC determines there has been a material adverse change in our financial condition, or that we have breached or otherwise not complied with the terms of the FHLBC's credit policy. Additionally, the FHLBC may increase the required amount of collateral at any time as a result of a change in its credit policy or as a result of our credit deterioration, in which case we may be required to deliver additional collateral in the form of cash or other eligible collateral. Factors that may affect the FHLB's judgment of our or our FHLB member subsidiary's creditworthiness, financial condition, or compliance with its credit policy include, among other things, increases in levels of indebtedness, increases in debt-to-capital ratios, or decreases in stockholders' equity. The margin call provisions and financial covenants included in this facility are further described below under the headings “*Margin Call Provisions Associated with Short-Term Debt and Other Debt Financing*” and “*Financial Covenants Associated with Short-Term Debt and Other Debt Financing*” When we use this facility to incur debt we are exposed to the market, credit, liquidity, and other types of risks described above with respect to residential loan warehouse and securities repurchase facilities.

Our access to financing under this facility is also subject to the risks described under the heading “*Risk Factors - Federal regulations may limit, eliminate, or reduce the attractiveness of our subsidiary's ability to use borrowings from the Federal Home Loan Bank of Chicago to finance the mortgage loans and securities it holds and acquires, which could negatively impact our business and operating results*” in Part I, Item 1A of this Annual Report on Form 10-K.

#### **Financial Covenants Associated With Short-Term Debt and Other Debt Financing**

Set forth below is a summary of the financial covenants associated with our short-term debt and other debt financing facilities.

- **Residential and Business Purpose Loan Warehouse Facilities.** As noted above, one source of our short-term debt financing is secured borrowings under residential and business purpose loan warehouse facilities we have established and, as of December 31, 2018, were in place with several different financial institution counterparties. Financial covenants included in these warehouse facilities are as follows and at December 31, 2018, and through the date of this Annual Report on Form 10-K, we were in compliance with each of these financial covenants:
  - Maintenance of a minimum dollar amount of stockholders' equity/tangible net worth at Redwood.
  - Maintenance of a minimum dollar amount of cash and cash equivalents at Redwood or maintenance of an amount of cash and cash equivalents in excess of a specified percentage of outstanding short-term recourse indebtedness.
  - Maintenance of a maximum ratio of consolidated recourse indebtedness to stockholders' equity and tangible net worth at Redwood (or a subsidiary of Redwood).
  - Maintenance of uncommitted residential loan warehouse facilities with a specified level of unused borrowing capacity.
- **Securities Repurchase Facilities.** As noted above, another source of our short-term debt financing is through secured borrowings under securities repurchase facilities we have established with various financial institution counterparties. Financial covenants included in these securities repurchase facilities are as follows and at December 31, 2018, and through the date of this Annual Report on Form 10-K, we were in compliance with each of these financial covenants:
  - Maintenance of a minimum dollar amount of stockholders' equity/tangible net worth at Redwood.
  - Maintenance of a minimum dollar amount of cash and cash equivalents at Redwood.



- Maintenance of a maximum ratio of consolidated recourse indebtedness to consolidated adjusted tangible net worth at Redwood.
- Committed Line of Credit. As noted above, we also maintain a \$10 million committed line of short-term credit from a bank, which is secured by our pledge of certain mortgage-backed securities we own. The types of financial covenants included in this bank line of credit are a subset of the covenants summarized above.
- Servicer Advance Financing. As noted above, servicer advance financing consists of non-recourse short-term securitization debt, secured by servicing advances. Financial covenants associated with this financing facility are as follows and at December 31, 2018, and through the date of this Annual Report on Form 10-K, we were in compliance with each of these financial covenants:
  - Maintenance of a minimum dollar amount of stockholders' equity/tangible net worth at a consolidated partnership.
  - Maintenance of a minimum dollar amount of cash and cash equivalents at a consolidated partnership.
- FHLB Borrowing Facility. As noted above, a wholly-owned subsidiary of ours, RWT Financial, also maintains a borrowing facility with the FHLBC, borrowings under which are required to be secured by eligible collateral including, but not limited to, residential mortgage loans and residential mortgage-backed securities. Financial covenants included in this facility are as follows and at December 31, 2018, and through the date of this Annual Report on Form 10-K, we were in compliance with each of these financial covenants:
  - Maintenance by RWT Financial of a maximum ratio of total liabilities (excluding debt subordinated to the FHLBC and non-recourse debt) to stockholders' equity and debt subordinated to the FHLBC.
  - Maintenance by RWT Financial of a minimum level of unencumbered assets based on the level of indebtedness to the FHLBC.
  - Maintenance of a maximum ratio of total liabilities (excluding non-recourse debt) to stockholders' equity at Redwood.
  - Maintenance of a minimum dollar amount of cash and cash equivalents, excess qualifying collateral, or undrawn borrowing capacity by RWT Financial.

As noted above, at December 31, 2018, and through the date of this Annual Report on Form 10-K, we were in compliance with the financial covenants associated with our short-term debt and other debt financing facilities. In particular, with respect to: (i) financial covenants that require us to maintain a minimum dollar amount of stockholders' equity or tangible net worth at Redwood, at December 31, 2018 our level of stockholders' equity and tangible net worth resulted in our being in compliance with these covenants by more than \$200 million; and (ii) financial covenants that require us to maintain recourse indebtedness below a specified ratio at Redwood, at December 31, 2018 our level of recourse indebtedness resulted in our being in compliance with these covenants at a level such that we could incur at least \$600 million in additional recourse indebtedness.

#### Margin Call Provisions Associated With Short-Term Debt and Other Debt Financing

- Residential and Business Purpose Loan Warehouse Facilities. As noted above, one source of our short-term debt financing is secured borrowings under residential and business purpose loan warehouse facilities we have established and, as of December 31, 2018, were in place with several different financial institution counterparties. These warehouse facilities include the margin call provisions described below (except the two business purpose loan warehouse facilities secured by residential bridge loans, which have no margin call provisions) and during the twelve months ended December 31, 2018, and through the date of this Annual Report on Form 10-K, we complied with any margin calls received from creditors under these warehouse facilities:
  - If at any time the market value (as determined by the creditor) of any residential mortgage loan financed under a facility declines, then the creditor may demand that we transfer additional collateral to the creditor (in the form of cash, U.S. Treasury obligations (in certain cases), or additional residential mortgage loans) with a value equal to the amount of the decline. If we receive any such demand, (i) under two of our residential loan warehouse facilities, we would generally be required to transfer the additional collateral on the same day (although demands received after a certain time would only require the transfer of additional collateral on the following business day) and (ii) under two of our residential loan warehouse facilities and our two business purpose loan warehouse facilities secured by single-family rental loans, we would generally be required to transfer the additional collateral on the following business day. The value of additional residential and business purpose mortgage loans transferred as additional collateral is determined by the creditor.

- Securities Repurchase Facilities. Another source of our short-term debt financing is through secured borrowings under securities repurchase facilities we have established with various financial institution counterparties. These repurchase facilities include the margin call provisions described below and during the twelve months ended December 31, 2018, and through the date of this Annual Report on Form 10-K, we complied with any margin calls received from creditors under these repurchase facilities:
  - If at any time the market value (as determined by the creditor) of any securities financed under a facility declines, then the creditor may demand that we transfer additional collateral to the creditor (in the form of cash, U.S. Treasury obligations, or additional securities) with a value equal to the amount of the decline. If we receive any such demand, we would generally be required to transfer the additional collateral on the same day. The value of additional securities transferred as additional collateral is determined by the creditor.
- Committed Line of Credit. As noted above, we also maintain a \$10 million committed line of short-term credit from a bank, which is secured by our pledge of certain mortgage-backed securities we own. Margin call provisions included in this bank line of credit are as follows and during the twelve months ended December 31, 2018, and through the date of this Annual Report on Form 10-K, we complied with any margin calls received from this creditor under this line of credit:
  - If at any time the total market value (as determined by two broker-dealers) of the securities that are pledged as collateral under this facility declines to a value less than the outstanding amount of borrowings under this facility, then the creditor may demand that we transfer additional collateral to the creditor (in the form of cash, U.S. Treasury obligations, or additional securities) with a value equal to the amount of the difference. If we receive any such demand, we would generally be required to transfer the additional collateral within two business days. The value of additional collateral pledged is determined by the creditor.
- FHLB Borrowing Facility. As noted above, a wholly-owned subsidiary of ours, RWT Financial, also maintains a borrowing facility with the FHLBC, borrowings under which are required to be secured by eligible collateral including, but not limited to, residential mortgage loans and residential mortgage-backed securities. This facility includes the margin call provisions described below during the twelve months ended December 31, 2018, and through the date of this Annual Report on Form 10-K, we complied with any margin calls received from the creditor under this facility.
  - If at any time the aggregate market value (as determined by the FHLBC) of the residential mortgage loans and residential mortgage-backed securities pledged as collateral under this facility declines to a value less than the required collateral level, or if any collateral ceases to be qualifying collateral under the terms of this facility, we would be required to promptly deliver additional collateral sufficient to maintain the required collateral level. The value of additional loans or securities transferred as additional collateral is determined by the FHLBC.

## OFF BALANCE SHEET ARRANGEMENTS AND CONTRACTUAL OBLIGATIONS

In the normal course of business, we engage in financial transactions that may not be recorded on the balance sheet. For additional information on our commitments and contingencies, refer to *Note 16* in Part II, Item 8 of this Annual Report.

The following table presents our contractual obligations and commitments at December 31, 2018, as well as the obligations of the securitization entities that we consolidate for financial reporting purposes.

**Table 43 – Contractual Obligations and Commitments**

(In Millions)	Payments Due or Commitment Expiration by Period				
	Less Than 1 Year	1 to 3 Years	3 to 5 Years	After 5 Years	Total
<b>Obligations of Redwood</b>					
Short-term debt	\$ 1,938	\$ —	\$ —	\$ —	\$ 1,938
Convertible notes	201	—	245	200	646
Anticipated interest payments on convertible notes	34	46	46	11	137
FHLBC borrowings	—	—	—	2,000	2,000
Anticipated interest payments on FHLBC borrowings	58	106	109	94	367
Other long-term debt	—	—	—	140	140
Anticipated interest payments on other long-term debt <sup>(1)</sup>	9	19	19	124	171
Accrued interest payable	17	—	—	—	17
Operating leases	2	3	3	8	16
Commitment to fund partnerships	36	—	—	—	36
Total Redwood Obligations and Commitments	\$ 2,295	\$ 174	\$ 422	\$ 2,577	\$ 5,468
<b>Obligations of Consolidated Securitization Entities for Financial Reporting Purposes</b>					
Consolidated ABS <sup>(2)</sup>	\$ —	\$ —	\$ —	\$ 5,310	\$ 5,310
Anticipated interest payments on ABS <sup>(3)</sup>	212	414	393	1,445	2,464
Non-recourse short-term debt	263	—	—	—	263
Accrued interest payable	17	—	—	—	17
Total Obligations of Securitization Entities Consolidated for Financial Reporting Purposes	492	414	393	6,755	8,054
<b>Total Consolidated Obligations and Commitments</b>	<b>\$ 2,787</b>	<b>\$ 588</b>	<b>\$ 815</b>	<b>\$ 9,332</b>	<b>\$ 13,522</b>

(1) Includes anticipated interest payments related to hedges.

(2) All consolidated ABS issued are collateralized by real estate loans. Although the stated maturity is as shown, the ABS obligations will pay down as the principal balances of these real estate loans or securities pay down. The amount shown is the principal balance of the ABS issued and not necessarily the value reported in our consolidated financial statements.

(3) The anticipated interest payments on consolidated ABS issued is calculated based on the contractual maturity of the ABS and therefore assumes no prepayments of the principal outstanding at December 31, 2018.

## CRITICAL ACCOUNTING POLICIES AND ESTIMATES

The preparation of financial statements in conformity with GAAP requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reported periods. Actual results could differ from those estimates. A discussion of critical accounting policies and the possible effects of changes in estimates on our consolidated financial statements is included in *Note 2 — Basis of Presentation* and *Note 3 — Summary of Significant Accounting Policies* included in Part II, Item 8 of this Annual Report on Form 10-K. Management discusses the ongoing development and selection of these critical accounting policies with the audit committee of the board of directors.

We expect quarter-to-quarter GAAP earnings volatility from our business activities. This volatility can occur for a variety of reasons, including the timing and amount of purchases, sales, calls, and repayment of consolidated assets, changes in the fair values of consolidated assets and liabilities, increases or decreases in earnings from mortgage banking activities, and certain non-recurring events. In addition, the amount or timing of our reported earnings may be impacted by technical accounting issues and estimates, some of which are described below.

### *Changes in the Fair Value of Loans Held at Fair Value*

We have elected the fair value option for our residential loans held-for-sale, residential loans held-for-investment, and business purpose residential loans. As such, these loans are carried on our consolidated balance sheets at their estimated fair value and changes in the fair values of these loans are recorded in Mortgage banking activities, net or Investment fair value changes, net on our consolidated statements of income in the period in which the valuation change occurs. Periodic fluctuations in the values of these investments are inherently volatile and thus can lead to significant period-to-period GAAP earnings volatility.

The fair value of loans is affected by, among other things, changes in interest rates, credit performance, prepayments, and market liquidity. To the extent interest rates change or market liquidity and or credit conditions materially change, the value of these loans could decline, which could have a material effect on reported earnings.

### *Changes in Fair Values of Securities*

Our securities are classified as either trading or AFS securities, and in both cases are carried on our consolidated balance sheets at their estimated fair values. In addition, we invest in securities of certain securitization entities that we are required to consolidate for GAAP reporting purposes. We have elected to account for these entities as collateralized financing entities and use the fair value of the ABS issued by these entities (which we determined to be more observable) to determine the fair value of the loans held at these entities. For trading securities and collateralized financing entities, changes in fair values are recorded in Investment fair value changes, net on our consolidated statements of income in the period in which the valuation change occurs. Periodic fluctuations in the values of these investments are inherently volatile and thus can lead to significant period-to-period GAAP earnings volatility.

For AFS securities, cumulative unrealized gains and losses are recorded as a component of Accumulated other comprehensive income in our consolidated balance sheets. Unrealized gains are not credited to current earnings and unrealized losses are not charged against current earnings to the extent they are temporary in nature. Certain factors may require us, however, to recognize declines in the values of AFS securities as other-than-temporary impairments and record them through our current earnings. Factors that determine other-than-temporary-impairment include a change in our ability or intent to hold AFS securities, adverse changes to projected cash flows of assets, or the likelihood that declines in the fair values of assets would not return to their previous levels within a reasonable time. Impairments on AFS securities can lead to significant period-to-period GAAP earnings volatility. In addition, sales of securities in large unrealized gain or loss positions that are not impaired can lead to significant period-to-period GAAP earnings volatility.

### *Changes in Fair Values of Mortgage Servicing Rights*

Mortgage servicing rights are carried on our consolidated balance sheets at their estimated fair values, with changes in fair values recorded in the consolidated statements of income as a component of Other income, net. Periodic fluctuations in the values of our mortgage servicing rights can be caused by actual prepayments on the underlying loans, changes in assumptions regarding future projected prepayments on the underlying loans, and changes in the discount rate assumptions used to value mortgage servicing rights, among other factors. Periodic fluctuations in the values of these investments are inherently volatile and can lead to significant period-to-period GAAP earnings volatility.

#### ***Changes in Fair Values of Servicer Advance Investments***

Servicer advance investments are carried on our consolidated balance sheets at their estimated fair values, with changes in fair values recorded in our consolidated statements of income in Investment fair value changes, net. Periodic fluctuations in the values of our servicer advance investments can be caused by changes in the actual and anticipated balance of servicing advances outstanding, actual and anticipated prepayments on the underlying loans, and changes in the discount rate assumptions used to value servicer advance investments. Periodic fluctuations in the values of these investments are inherently volatile and can lead to significant period-to-period GAAP earnings volatility.

#### ***Changes in Fair Values of Excess MSRs***

Excess MSRs are carried on our consolidated balance sheets at their estimated fair values, with changes in fair values recorded in our consolidated statements of income in Investment fair value changes, net. Periodic fluctuations in the values of our excess MSRs can be caused by actual prepayments on the underlying loans, changes in assumptions regarding future projected prepayments on the underlying loans, actual or anticipated changes in delinquencies, and changes in the discount rate assumptions used to value excess MSRs. Periodic fluctuations in the values of these investments are inherently volatile and can lead to significant period-to-period GAAP earnings volatility.

#### ***Changes in Fair Values of Derivative Financial Instruments***

We generally use derivatives as part of our mortgage banking activities (e.g., to manage risks associated with loans we plan to acquire and subsequently sell or securitize), in relation to our residential investments (to manage risks associated with our securities, MSRs, and held-for-investment loans), and to manage variability in debt interest expense indexed to adjustable rates, and cash flows on assets and liabilities that have different coupon rates (fixed rates versus floating rates, or floating rates based on different indices). The nature of the instruments we use and the accounting treatment for the specific assets, liabilities, and derivatives may therefore lead to volatility in our periodic earnings, even when we are meeting our hedging objectives.

Some of our derivatives are accounted for as trading instruments with all associated changes in value recorded through our consolidated statements of income. Changes in value of the assets and liabilities we manage by using derivatives may not be accounted for similarly. This could lead to reported income and book values in specific periods that do not necessarily reflect the economics of our risk management strategy. Even when the assets and liabilities are similarly accounted for as trading instruments, periodic changes in their values may not coincide as other market factors (e.g., supply and demand) may affect certain instruments and not others at any given time.

#### ***Changes in Mortgage Banking Income***

The amount of income that can be earned from mortgage banking activities is primarily dependent on the volume of loans we are able to acquire and any potential profit we earn upon the sale or securitization of these loans. Our ability to acquire loans and the volume of loans we acquire is dependent on many factors that are beyond our control, including general economic conditions and changes in interest rates, loan origination volumes industry-wide and at the sellers we purchase our loans from, increased regulation, and competition from other financial institutions. Our profitability from mortgage banking activities is also dependent on many factors, including our ability to effectively hedge certain risks related to changes in interest rates and other factors that are beyond our control, including changes in market credit risk pricing. Additionally, our income from mortgage banking activities is generally generated over the period from when we identify a loan for purchase until we subsequently sell or securitize the loan. This income may encompass positive or negative market valuation adjustments on loans, hedging gains or losses associated with related risk management activities, and any other related transaction expenses, and may be realized unevenly over the course of one or more quarters for financial reporting purposes. Additional factors that could impact our profitability are discussed in Part I, Item 1A - *Risk Factors* of this Annual Report on Form 10-K and above, under the headings “*Changes in the Fair Value of Loans Held at Fair Value*” and “*Changes in Fair Values of Derivative Financial Instruments*.” Changes in the volumes of loans acquired or originated in connection with our mortgage banking activities and our profitability on these activities can lead to significant period-to-period GAAP earnings volatility.

### ***Changes in Yields for Securities***

The yields we project on available-for-sale real estate securities can have a significant effect on the periodic interest income we recognize for financial reporting purposes. Yields can vary as a function of credit results, prepayment rates, and interest rates. If estimated future credit losses are less than our prior estimate, credit losses occur later than expected, or prepayment rates are faster than expected (meaning the present value of projected cash flows is greater than previously expected for assets acquired at a discount to principal balance), the yield over the remaining life of the security may be adjusted upwards. If estimated future credit losses exceed our prior expectations, credit losses occur more quickly than expected, or prepayments occur more slowly than expected (meaning the present value of projected cash flows is less than previously expected for assets acquired at a discount to principal balance), the yield over the remaining life of the security may be adjusted downward.

Changes in the actual maturities of real estate securities may also affect their yields to maturity. Actual maturities are affected by the contractual lives of the associated mortgage collateral, periodic payments of principal, and prepayments of principal. Therefore, actual maturities of AFS securities are generally shorter than stated contractual maturities. Stated contractual maturities are generally greater than 10 years. There is no assurance that our assumptions used to estimate future cash flows or the current period's yield for each asset will not change in the near term, and any change could be material.

### ***Changes in Loss Contingency Reserves***

We may be exposed to various loss contingencies, including, without limitation, those described in *Note 16* to the consolidated financial statements included in Part II, Item 8 of this Annual Report on Form 10-K. In accordance with FASB guidance on accounting for contingencies, we review the need for any loss contingency reserves and establish them when, in the opinion of management, it is probable that a matter would result in a liability, and the amount of loss, if any, can be reasonably estimated. The establishment of a loss contingency reserve, the subsequent increase in a reserve or release of reserves previously established, or the recognition of a loss in excess of previously established reserves, can occur as a result of various factors and events that affect management's opinion of whether the standard for establishing, increasing, or continuing to maintain, a reserve has been met. Changes in the loss contingency reserves can lead to significant period-to-period GAAP earnings volatility.

### ***Changes in Provision for Taxes***

Our provision for income taxes is primarily the result of GAAP income or losses generated at our TRS. Deferred tax assets/liabilities are generated by temporary differences in GAAP income and taxable income at our taxable subsidiaries and are a significant component of our GAAP provision for income taxes. In assessing the realizability of deferred tax assets, we consider whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. We consider historical and projected future taxable income and capital gains as well as tax planning strategies in making this assessment. We determine the extent to which realization of this deferred asset is not assured and establish a valuation allowance accordingly. The estimate of net deferred tax assets and associated valuation allowances could change in future periods to the extent that actual or revised estimates of future taxable income during the carry-forward periods change from current expectations, causing significant period-to-period GAAP earnings volatility.

### **Market Risks**

We seek to manage risks inherent in our business — including but not limited to credit risk, interest rate risk, prepayment risk, liquidity risk, and fair value risk — in a prudent manner designed to enhance our earnings and dividends and preserve our capital. In general, we seek to assume risks that can be quantified from historical experience, to actively manage such risks, and to maintain capital levels consistent with these risks. Information concerning the risks we are managing, how these risks are changing over time, and potential GAAP earnings and taxable income volatility we may experience as a result of these risks is discussed under the caption “*Risk Factors*” of this Annual Report on Form 10-K, under the caption “*Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities*” within this MD&A, and under the caption “*Quantitative and Qualitative Disclosures About Market Risk*” of this Annual Report on Form 10-K.

### **Other Risks**

In addition to the market and other risks described above, our business and results of operations are subject to a variety of types of risks and uncertainties, including, among other things, those described under the caption “*Risk Factors*” of this Annual Report on Form 10-K.

## NEW ACCOUNTING STANDARDS

A discussion of new accounting standards and the possible effects of these standards on our consolidated financial statements is included in *Note 3 — Summary of Significant Accounting Policies* included in Part II, Item 8 of this Annual Report on Form 10-K.

## ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

### Market Risks

We seek to manage risks inherent in our business - including but not limited to credit risk, interest rate risk, prepayment risk, inflation risk, and fair value and liquidity risk - in a prudent manner designed to enhance our earnings and dividends and preserve our capital. In general, we seek to assume risks that can be quantified from historical experience, to actively manage such risks, and to maintain capital levels consistent with these risks. This section presents a general overview of these risks. Additional information concerning the risks we are managing, how these risks are changing over time, and potential GAAP earnings and taxable income volatility we may experience as a result of these risks is further discussed in Part I, Item 1A and Part II, Item 7 of this Annual Report on Form 10-K.

### Credit Risk

Integral to our business is assuming credit risk through our ownership of real estate loans, securities and other investments as well as through our reliance on the creditworthiness of business counterparties. We believe the securities and loans we purchase are priced to generate an expected return that compensates us for the underlying credit risk associated with these investments. Nevertheless, there may be significant credit losses associated with these investments should they perform worse than we expect on a credit basis. For additional details, refer to Part I, Item 1A of this Annual Report on Form 10-K and see the risk factor titled *"The nature of the assets we hold and the investments we make expose us to credit risk that could negatively impact the value of those assets and investments, our earnings, dividends, cash flows, and access to liquidity, or otherwise negatively affect our business."*

We manage our credit risks by analyzing the extent of the risk we are taking and reviewing whether we believe the appropriate underwriting criteria are met, and we utilize systems and staff to monitor the ongoing credit performance of our loans and securities. To the extent we find the credit risks on specific assets are changing adversely, we may be able to take actions, such as selling the affected investments, to mitigate potential losses. However, we may not always be successful in analyzing risks, reviewing underwriting criteria, foreseeing adverse changes in credit performance or in effectively mitigating future credit losses and the ability to sell an asset may be limited due to the structure of the asset or the absence of a liquid market for the asset.

### Residential Loans and Securities

Our residential loans (including business purpose residential loans) and securities backed by residential loans are generally secured by real property. Credit losses on real estate loans and securities can occur for many reasons, including: poor origination practices; fraud; poor underwriting; poor servicing practices; weak economic conditions; increases in payments required to be made by borrowers; declines in the value of real estate; natural disasters, the effects of climate change (including flooding, drought, and severe weather) and other natural events; uninsured property loss; over-leveraging of the borrower; costs of remediation of environmental conditions, such as indoor mold; acts of war or terrorism; changes in legal protections for lenders and other changes in law or regulation; and personal events affecting borrowers, such as reduction in income, job loss, divorce, or health problems. In addition, if the U.S. economy or the housing market were to weaken (and that weakening was in excess of what we anticipated), credit losses could increase beyond levels that we have anticipated.

Credit losses on business purpose real estate loans can occur for many of the reasons noted above for residential real estate loans. Moreover, these types of real estate loans may not be fully amortizing and, therefore, the borrower's ability to repay the principal when due may depend upon the ability of the borrower to refinance or sell the property at maturity. Business purpose real estate loans are particularly sensitive to conditions in the rental housing market and to demand for rental residential properties.

With respect to most of the legacy Sequoia securitization entities sponsored by us that we consolidate and for a portion of the loans underlying residential loan securities we have acquired from securitizations sponsored by others, the interest rate is adjustable. Accordingly, when short-term interest rates rise, required monthly payments from homeowners may rise under the terms of these loans, and this may increase borrowers' delinquencies and defaults that can lead to additional credit losses.

We may also own some securities backed by loans that are not prime quality such as re-performing and non-performing loans, Alt-A quality loans, and subprime loans, that have substantially higher credit risk characteristics than prime-quality loans. Consequently, we can expect these lower credit-quality loans to have higher rates of delinquency and loss, and if such losses differ from our assumptions, we could incur credit losses. In addition, we may invest in riskier loan types with the potential for higher delinquencies and losses as compared to regular amortization loans, but believe these securities offer us the opportunity to generate attractive risk-adjusted returns as a result of attractive pricing and the manner in which these securitizations are structured. Nevertheless, there remains substantial uncertainty about the future performance of these assets.



Additionally, we own residential mortgage credit risk transfer (or "CRT") securities issued by Fannie Mae and Freddie Mac ("the Agencies"), for which we assume credit risk both on the residential loans that the securities reference, as well as corporate credit risk from the Agencies, as our investments in the securities are not secured by the reference loans.

#### *Multifamily Securities*

The multifamily securities we invest in are primarily subordinate positions in securitizations sponsored by Freddie Mac that are comprised of loans collateralized by multifamily properties. We may also invest in other third-party sponsored commercial mortgage-backed securities. Credit losses on commercial/multifamily securities can occur for many reasons, including: poor origination practices; fraud; faulty appraisals; documentation errors; poor underwriting; legal errors; poor servicing practices; weak economic conditions; decline in the value of properties; declining rents on single and multifamily residential rental properties; special hazards; earthquakes and other natural events; over-leveraging of the borrower or on the property; reduction in market rents and occupancies and poor property management practices; and changes in legal protections for lenders. In addition, if the U.S. economy or were to weaken (and that weakening was in excess of what we anticipated), credit losses could increase beyond levels that we have anticipated.

#### *Counterparties*

We are also exposed to credit risk with respect to our business and lender counterparties. For example, counterparties we acquire loans from, lend to, or invest in, make representations and warranties and covenants to us, and may also indemnify us against certain losses. To the extent we have suffered a loss and are entitled to enforce those agreements to recover damages, if our counterparties are insolvent or unable or unwilling to comply with these agreements we would suffer a loss due to the credit risk associated with our counterparties. As an example, under short-term borrowing facilities and certain swap and other derivative agreements, we sometimes transfer assets as collateral to our counterparties. To the extent a counterparty is not able to return this collateral to us if and when we are entitled to its return, we could suffer a loss due to the credit risk associated with that counterparty.

In addition, because we rely on the availability of credit under committed and uncommitted borrowing facilities to fund our business and investments, our counterparties' willingness and ability to extend credit to us under these facilities is a significant counterparty risk (and is discussed further below under the heading "Fair Value and Liquidity Risks").

In connection with our servicer advance investments, the partnership entity (the "SA Buyer") formed to invest in servicer advance investments and excess MSR, has agreed to purchase all future arising servicer advances under certain residential mortgage servicing agreements. SA Buyer relies, in part, on its members to make committed capital contributions in order to pay the purchase price for future servicer advances. A failure by any or all of the members to make such capital contributions for amounts required to fund servicer advances could result in an event of default under our servicer advance financing and a complete loss of our investment in SA Buyer and its servicer advance investments and excess MSR.

The outstanding balance of servicer advances securing the financing is not likely to be repaid on or before the maturity date of such financing arrangement. We expect to request the same counterparty or another one of our financing sources to renew or refinance the financing for an additional fixed period, however, there can be no assurance that we will be able to extend the financing arrangement upon the expiration of its stated term, which subjects us to a number of risks. A financing source that elects to extend or refinance may charge higher interest rates and impose more onerous terms upon us, including without limitation, lowering the amount of financing that can be extended against the servicer advances being financed. If we are unable to renew or refinance the servicer advance financing, the securitization entity will be required to repay the outstanding balance of the financing on the related maturity date. Additionally, there may be substantial increases in the interest rates under the financing arrangement if the notes are not repaid, extended or refinanced prior to the expected repayment date, which may be before the related maturity date. If the securitization entity is unable to pay the outstanding balance of the notes, the financing counterparty may foreclose on the servicer advances pledged as collateral.

Under our servicer advance financing, the consolidated partnership (SA Buyer) and the securitization entity, along with the servicer (who is unaffiliated with us except through their co-investment in SA Buyer and the securitization entity), make various representations and warranties and have agreed to certain covenants, events of default, and other terms that if breached or triggered can result in acceleration of all outstanding amounts borrowed under this facility and this facility being unavailable to use for future financing needs. We do not have the direct ability to control the servicer's compliance with such covenants and tests and the failure of SA Buyer, the securitization entity, or the servicer to satisfy any such covenants or tests could result in a partial or total loss on our investment.

### ***Interest Rate Risk***

Changes in interest rates and the shape of the yield curve can affect the cash flows and fair values of our assets, liabilities, and derivative financial instruments and, consequently, affect our earnings and reported equity. Our general strategy with respect to interest rates is to maintain an asset/liability posture (including hedges) that assumes some interest rate risks but not to such a degree that the achievement of our long-term goals would likely be adversely affected by changes in interest rates. Accordingly, we are willing to accept short-term volatility of earnings and changes in our reported equity in order to accomplish our goal of achieving attractive long-term returns. For additional details, refer to Part I, Item 1A of this Annual Report on Form 10-K and see the risk factor titled *“Interest rate fluctuations can have various negative effects on us and could lead to reduced earnings and increased volatility in our earnings.”*

We invest in securities, residential loans, and other mortgage-related assets, which all expose us to interest rate risk. Additionally, we purchase residential loans from third parties, then sell or securitize these assets. We are exposed to interest rate risk during the “accumulation” period - the period from when we enter into agreements to purchase the loans with the intention of selling or securitizing them at a future date.

To mitigate this interest rate risk, we use derivative financial instruments for risk management purposes. We may also use derivative financial instruments in an effort to maintain a close match between pledged assets and debt. However, we generally do not attempt to completely hedge changes in interest rates, and at times, we may be subject to more interest rate risk than we generally desire in the long term. Changes in interest rates will have an impact on the values and cash flows of our assets and corresponding liabilities.

### ***Prepayment Risk***

Prepayment risks exist in many of the assets on our consolidated balance sheets. In general, discount securities benefit from faster prepayment rates on the underlying real estate loans while premium securities (such as IOs), and mortgage servicing assets benefit from slower prepayments on the underlying loans. In addition, loans held for investment at premiums also benefit from slower prepayments whereas loans held at discounts benefit from faster prepayments. For additional details, refer to Part I, Item 1A of this Annual Report on Form 10-K and see the risk factor titled *“Changes in prepayment rates of mortgage loans could reduce our earnings, dividends, cash flows, and access to liquidity.”*

When we make investments that are subject to prepayment risk, we apply a reasonable baseline prepayment range in determining expected returns. If actual prepayment rates deviate from our baseline expectations, it could have an adverse change to our expected returns. In order to mitigate this risk, we may use derivative financial instruments. We caution that prepayment rates are difficult to predict or anticipate, and adverse changes in the rate of prepayment could reduce our cash flows, earnings, and dividends.

### ***Inflation Risk***

Virtually all of our consolidated assets and liabilities are financial in nature. As a result, changes in interest rates and other factors drive our performance more directly than does inflation. That said, changes in interest rates generally correlate with inflation rates or changes in inflation rates, and therefore adverse changes in inflation or changes in inflation expectations can lead to lower returns on our investments than originally anticipated.

Our consolidated financial statements are prepared in accordance with GAAP. Our activities and balance sheets are measured with reference to historical cost or fair value without considering inflation.

### ***Fair Value and Liquidity Risks***

To fund our assets we may use a variety of debt alternatives in addition to equity capital that present us with fair value and liquidity risks. We seek to manage these risks, including by maintaining what we believe to be adequate cash and capital levels.

We acquire residential loans and then sell or securitize them as part of our mortgage banking operations. Changes in the fair value of the loans, once sold or securitized, do not have an impact on our liquidity. However, changes in fair values during the accumulation period (while these loans are typically funded with short-term debt before they are sold or securitized) may impact our liquidity. We also own residential loans that are held-for-investment and may be financed with borrowings from the FHLBC or funded with short-term debt. We would be exposed to liquidity risk to the extent the values of these loans decline and/or the counterparties we use to finance these investments adversely change our borrowing requirements. We attempt to mitigate our liquidity risk from FHLBC borrowings and short-term financing facilities by setting aside adequate capital, in addition to amounts required by our financing counterparties.

Many of the securities we acquire are funded with a combination of our capital and short-term debt facilities. For the securities we acquire with a combination of capital and short-term debt, we would be exposed to liquidity risk to the extent the values of these investments decline and/or the counterparties we use to finance these investments adversely change our borrowing requirements. We attempt to mitigate our liquidity risk from short-term financing facilities by setting aside adequate capital.

Under our borrowing facilities, interest rate swaps and other derivatives agreements, we pledge assets as security for our payment obligations and make various representations and warranties and agree to certain covenants, events of default, and other terms. In addition, our borrowing facilities are generally uncommitted, meaning that each time we request a new borrowing under a facility the lender has the option to decline to extend credit to us. The terms of these facilities and agreements typically include financial covenants (such as covenants to maintain a minimum amount of tangible net worth or stockholders' equity and/or a minimum amount of liquid assets and/or a maximum amount of recourse debt to equity), margin requirements (which typically require us to pledge additional collateral if and when the value of previously pledged collateral declines), operating covenants (such as covenants to conduct our business in accordance with applicable laws and regulations and covenants to provide notice of certain events to creditors), representations and warranties (such as representations and warranties relating to characteristics of pledged collateral, our exposure to litigation and/or regulatory enforcement actions and the absence of material adverse changes to our financial condition, our operations, or our business prospects), and events of default (such as a breach of covenant or representation/warranty and cross-defaults, under which an event of default is triggered under a credit facility if an event of default or similar event occurs under another credit facility). For additional details, refer to Part II, Item 7 of this Annual Report on Form 10-K and see the discussion titled "*Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities.*"

#### ***Quantitative Information on Market Risk***

Our future earnings are sensitive to a number of market risk factors and changes in these factors may have a variety of secondary effects that, in turn, will also impact our earnings and equity. To supplement the discussion above of the market risks we face, the following table incorporates information that may be useful in analyzing certain market risks that may affect our consolidated balance sheet at December 31, 2018. The table presents principal cash flows and related average interest rates for material interest rate sensitive assets and liabilities by year of repayment. The forward curve (future interest rates as implied by the yield structure of debt markets) at December 31, 2018, was used to project the average coupon rates for each year presented. The timing of principal cash flows includes assumptions on the prepayment speeds of assets based on their recent prepayment performance and future prepayment performance consistent with the forward curve. Our future results depend greatly on the credit performance of the underlying loans (this table assumes no credit losses), future interest rates, prepayments, and our ability to invest our existing cash and future cash flow.

**Quantitative Information on Market Risk**

		Principal Amounts Maturing and Effective Rates During Period						December 31, 2018	
		2019	2020	2021	2022	2023	Thereafter	Principal Balance	Fair Value
<b>(Dollars in Thousands)</b>									
<b>Interest rate sensitive assets <sup>(1)</sup></b>									
<b>Residential loans - HFS <sup>(2)</sup></b>									
Adjustable Rate	Principal	\$ 149	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 149	\$ 111
	Interest Rate	4.45%	N/A	N/A	N/A	N/A	N/A		
Fixed Rate	Principal	947,140	—	—	—	—	—	947,140	959,284
	Interest Rate	4.91%	N/A	N/A	N/A	N/A	N/A		
Hybrid	Principal	87,144	—	—	—	—	—	87,144	89,406
	Interest Rate	4.46%	N/A	N/A	N/A	N/A	N/A		
<b>Residential loans - HFI at Redwood</b>									
Fixed Rate	Principal	236,950	223,388	210,602	198,548	187,184	1,025,093	2,081,765	2,074,185
	Interest Rate	4.12%	4.12%	4.12%	4.12%	4.12%	4.12%		
Hybrid	Principal	48,150	43,212	38,780	34,803	31,234	107,387	303,565	309,747
	Interest Rate	4.23%	4.23%	4.23%	4.23%	4.23%	4.23%		
<b>Residential loans - HFI at Sequoia</b>									
Adjustable Rate	Principal	165,300	126,752	96,872	73,518	55,617	27,151	545,209	519,958
	Interest Rate	4.00%	3.96%	3.84%	3.87%	3.93%	3.93%		
Fixed Rate	Principal	434,528	343,391	271,176	213,970	168,682	609,263	2,041,011	2,079,382
	Interest Rate	5.02%	5.02%	5.01%	5.00%	5.00%	5.00%		
<b>Residential loans - HFI at Freddie Mac SLST</b>									
Fixed Rate	Principal	98,759	92,173	86,108	80,451	75,187	878,296	1,310,974	1,222,669
	Interest Rate	4.38%	4.42%	4.44%	4.44%	4.44%	4.44%		
<b>Business Purpose Residential Loans</b>									
Fixed Rate	Principal	112,193	167	—	—	2,431	25,135	139,925	141,258
	Interest Rate	9.16%	9%	N/A	N/A	6.52%	5.84%		
<b>Multifamily loans - HFI at Freddie Mac K-Series</b>									
Fixed Rate	Principal	13,197	16,978	28,951	34,608	97,213	1,935,751	2,126,698	2,144,598
	Interest Rate	4.08%	4.10%	4.09%	4.09%	4.10%	4.10%		
<b>Residential Senior Securities</b>									
Adjustable Rate	Principal	5,734	4,817	4,041	3,369	2,798	9,223	29,982	29,925
	Interest Rate	4.57%	4.58%	4.50%	4.59%	4.69%	4.75%		
Fixed Rate <sup>(3)</sup>	Principal	11,450	10,616	9,832	8,576	7,458	63,711	111,643	189,497
	Interest Rate	4.33%	4.33%	4.33%	4.34%	4.34%	4.26%		
Hybrid	Principal	4,455	3,919	3,532	3,046	2,626	10,115	27,693	26,863
	Interest Rate	4.35%	4.34%	4.28%	4.26%	4.26%	3.99%		
<b>Residential Subordinate Securities</b>									
Adjustable Rate	Principal	13	11	10	10	10	3,454	3,508	2,781
	Interest Rate	3.90%	3.90%	3.90%	3.91%	3.91%	3.94%		
Fixed Rate	Principal	12,641	16,317	22,874	28,203	40,037	787,772	907,844	743,538
	Interest Rate	4.53%	4.56%	4.55%	4.56%	4.56%	4.50%		
Hybrid	Principal	3,032	2,701	2,188	1,571	1,341	30,541	41,374	30,811
	Interest Rate	3.78%	3.84%	3.95%	4.10%	4.17%	3.84%		

**Quantitative Information on Market Risk**

(Dollars in Thousands)		Principal Amounts Maturing and Effective Rates During Period						December 31, 2018	
		2019	2020	2021	2022	2023	Thereafter	Principal Balance	Fair Value
<b>Interest rate sensitive assets (continued)</b>									
<b>Multifamily Securities</b>									
Adjustable Rate	Principal	\$ 33,093	\$ 26,934	\$ 16,862	\$ 8,637	\$ 3,962	\$ 23,941	\$ 113,429	\$ 114,393
	Interest Rate	5.41%	5.36%	5.22%	5.17%	5.08%	5.05%		
Fixed Rate	Principal	—	—	—	—	—	340,623	340,623	314,686
	Interest Rate	3.99%	3.99%	3.99%	3.99%	3.99%	3.99%		
<b>Interest rate sensitive liabilities</b>									
<b>Asset-backed securities issued</b>									
<b>Sequoia Entities</b>									
Adjustable Rate	Principal	138,049	106,063	80,711	60,904	45,796	108,935	540,456	512,240
	Interest Rate	3.29%	3.14%	3.07%	3.13%	3.16%	3.16%		
Fixed Rate	Principal	408,575	322,133	253,597	198,847	149,093	506,514	1,838,758	1,885,010
	Interest Rate	4.21%	4.22%	4.22%	4.23%	4.23%	4.23%		
<b>Freddie Mac SLST Entity</b>									
Fixed Rate	Principal	105,703	94,162	61,026	57,017	53,286	622,465	993,659	993,748
	Interest Rate	3.53%	3.54%	3.53%	3.53%	3.53%	3.53%		
<b>Freddie Mac K-Series Entities</b>									
Fixed Rate	Principal	13,197	16,978	28,951	34,608	97,213	1,745,744	1,936,691	2,019,075
	Interest Rate	2.65%	2.66%	2.66%	2.66%	2.67%	2.67%		
<b>Short-term Debt</b>	Principal	2,200,660	—	—	—	—	—	2,200,660	2,200,660
	Interest Rate	3.99%	N/A	N/A	N/A	N/A	N/A		
<b>Long-term Debt</b>									
<b>FHLBC Borrowings</b>	Principal	—	—	—	—	—	1,999,999	1,999,999	1,999,999
	Interest Rate	2.88%	2.68%	2.61%	2.67%	2.76%	2.90%		
<b>Convertible Notes</b>	Principal	200,765	—	—	—	245,000	200,000	645,765	618,271
	Interest Rate	5.69%	5.72%	5.72%	5.72%	5.72%	6.20%		
<b>Other long-term debt</b>	Principal	—	—	—	—	—	139,500	139,500	102,533
	Interest Rate	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%		
<b>Interest rate agreements</b>									
<b>Interest Rate Swaps</b>									
(Purchased)	Notional Amount	467,000	110,000	692,000	285,000	222,000	1,865,000	3,641,000	(39,744)
	Receive Strike Rate	2.68%	2.48%	2.41%	2.47%	2.56%	2.90%		
	Pay Strike Rate	2.47%	2.59%	2.62%	2.70%	2.80%	2.84%		
(Sold)	Notional Amount	—	20,000	35,000	115,000	75,000	102,000	347,000	(2,953)
	Receive Strike Rate	2.28%	2.28%	2.31%	2.26%	2.54%	2.32%		
	Pay Strike Rate	2.68%	2.48%	2.41%	2.47%	2.56%	2.83%		

- (1) For the key assumptions and sensitivity analysis for assets retained from securitizations, refer to *Note 4* in Part II, Item 8 of this Annual Report.
- (2) As we generally expect our residential loans held-for-sale to be sold within one year, we have only presented principal amounts and effective rates through 2019.
- (3) The fair value of fixed-rate senior securities includes \$82 million of interest-only securities, for which there is no principal at December 31, 2018.

## **ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA**

The Consolidated Financial Statements of Redwood Trust, Inc. and Notes thereto, together with the Reports of Independent Registered Public Accounting Firm thereon, are set forth on pages F-1 through F-96 of this Annual Report on Form 10-K and incorporated herein by reference.

## **ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE**

None.

## **ITEM 9A. CONTROLS AND PROCEDURES**

We have adopted and maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed on our reports under the Securities Exchange Act of 1934, as amended (the Exchange Act), is recorded, processed, summarized, and reported within the time periods specified in the U.S. Securities and Exchange Commission's rules and forms and that the information is accumulated and communicated to our management, including our chief executive officer and chief financial officer, as appropriate, to allow for timely decisions regarding required disclosure. In designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and management is required to apply its judgment in evaluating the cost-benefit relationship of possible controls and procedures.

As required by Rule 13a-15(b) of the Exchange Act, we have carried out an evaluation, under the supervision and with the participation of management, including our chief executive officer and chief financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the quarter covered by this report. Based on the foregoing, our chief executive officer and chief financial officer concluded that our disclosure controls and procedures were effective at a reasonable assurance level.

There have been no changes in our internal control over financial reporting during the fourth quarter of 2018 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Management of Redwood Trust, Inc., together with its consolidated subsidiaries (the Company, or Redwood), is responsible for establishing and maintaining adequate internal control over financial reporting. Our internal control over financial reporting is a process designed under the supervision of our chief executive officer and chief financial officer to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our consolidated financial statements for external reporting purposes in accordance with U.S. generally accepted accounting principles (GAAP).

As of the end of our 2018 fiscal year, management conducted an assessment of the effectiveness of our internal control over financial reporting based on the framework established in Internal Control - Integrated Framework released by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in 2013. Based on this assessment, management has determined that the Company's internal control over financial reporting as of December 31, 2018, was effective.

Our internal control over financial reporting includes policies and procedures that pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; provide reasonable assurances that transactions are recorded as necessary to permit preparation of financial statements in accordance with GAAP, and that receipts and expenditures are being made only in accordance with authorizations of management and the board of directors of Redwood; and provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on our consolidated financial statements.

The Company's internal control over financial reporting as of December 31, 2018, has been audited by Grant Thornton LLP, an independent registered public accounting firm, as stated in their report appearing on page F-4, which expresses an unqualified opinion on the effectiveness of the Company's internal control over financial reporting as of December 31, 2018.

## ITEM 9B. OTHER INFORMATION

On February 26, 2019, the Board of Directors of Redwood Trust, Inc. elected Fred J. Matera to its Board of Directors, to fill the vacancy created by the Board's decision to increase the size of the Board from nine directors to ten, in each case, effective on March 1, 2019.

Mr. Matera, age 55, most recently served as president of EquiFi Corporation, a developer of home equity-based financing solutions for homeowners, from October 2018 through March 1, 2019. Between September 2016 and October 2017, Mr. Matera served as Chief Operating Officer and Chief Investment Officer of LendUS, LLC, which does business as RPM Mortgage, and engages in mortgage origination and servicing. From 2008 to May 2016, Mr. Matera was employed by Redwood, serving in various capacities, including: as Executive Vice President-Commercial Investments and Finance, responsible for the commercial mortgage banking and investments business Redwood was engaged in during that time; as Chief Investment Officer, responsible for Redwood's investment and capital markets activities; and as a Managing Director. Prior to joining Redwood, beginning in 2001, Mr. Matera was a Managing Director and Co-Head of Structured Credit at RBS Greenwich Capital. He began his career in finance in 1989 as a mortgage trader, and has held a number of fixed income trading positions in financial services firms, including Goldman Sachs, DLJ, and First Boston. Prior to graduating from business school, Mr. Matera was an analyst at the Federal Reserve Bank of New York. Mr. Matera has a B.A. in economics from Tufts University, and an M.B.A. in finance from The Wharton School of the University of Pennsylvania.

Mr. Matera will receive compensation for his service as a director as described in the summary of compensation arrangements for non-employee directors set forth in Redwood's Proxy Statement for its 2018 Annual Meeting of Stockholders, a copy of which was filed with the SEC on March 28, 2018, including a pro-rated amount of such compensation for his service during 2019 through the date of Redwood's 2019 Annual Meeting of Stockholders. It is not currently contemplated that Mr. Matera will serve on any of the standing committees of the Board of Directors of Redwood Trust, Inc.

From January 1, 2019 through February 28, 2019, Mr. Matera was a consultant to the Board of Directors of Redwood Trust, Inc. and was paid compensation by Redwood for his consulting services at the rate of \$7,500 per month, as well as reimbursement of any reasonable out-of-pocket expenses. In December 2018, Mr. Matera received deferred compensation from Redwood in the form of the delivery of 11,995 shares of vested common stock underlying performance stock units that were granted to him by the Company in December 2015 as compensation for then serving as an Executive Vice President of Redwood. Of the shares delivered to Mr. Matera in December 2018, approximately 4,203 were forfeited in connection with a net settlement of such delivery for income tax withholding purposes (with the value of the forfeited shares being remitted by Redwood to state and federal income taxing authorities).

In connection with the election of Mr. Matera as a director, Redwood and Mr. Matera will enter into an indemnification agreement, which generally requires Redwood to indemnify and to advance expenses to Mr. Matera to the maximum extent permitted by Maryland law. A copy of this form of indemnification agreement is filed as Exhibit 99.3 to the Current Report on Form 8-K filed on November 16, 2009.

## **PART III**

### **ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE**

The information required by Item 10 is incorporated herein by reference to the definitive Proxy Statement to be filed with the SEC pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this Annual Report on Form 10-K.

### **ITEM 11. EXECUTIVE COMPENSATION**

The information required by Item 11 is incorporated herein by reference to the definitive Proxy Statement to be filed with the SEC pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this Annual Report on Form 10-K.

### **ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS**

The information required by Item 12 is incorporated herein by reference to the definitive Proxy Statement to be filed with the SEC pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this Annual Report on Form 10-K.

### **ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE**

The information required by Item 13 is incorporated herein by reference to the definitive Proxy Statement to be filed with the SEC pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this Annual Report on Form 10-K.

### **ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES**

The information required by Item 14 is incorporated herein by reference to the definitive Proxy Statement to be filed with the SEC pursuant to Regulation 14A within 120 days after the end of the fiscal year covered by this Annual Report on Form 10-K.



## PART IV

### ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

Documents filed as part of this report:

- (1) Consolidated Financial Statements and Notes thereto
- (2) Schedules to Consolidated Financial Statements: Schedule IV - Mortgage Loans on Real Estate

All other Consolidated Financial Statements schedules not included have been omitted because they are either inapplicable or the information required is provided in the Company's Consolidated Financial Statements and Notes thereto, included in Part II, Item 8, of this Annual Report on Form 10-K.

- (3) Exhibits:

<b>Exhibit Number</b>	<b>Exhibit</b>
3.1	<a href="#"><u>Articles of Amendment and Restatement of the Registrant, effective July 6, 1994 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1, filed on August 6, 2008)</u></a>
3.1.1	<a href="#"><u>Articles Supplementary of the Registrant, effective August 10, 1994 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1.1, filed on August 6, 2008)</u></a>
3.1.2	<a href="#"><u>Articles Supplementary of the Registrant, effective August 11, 1995 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1.2, filed on August 6, 2008)</u></a>
3.1.3	<a href="#"><u>Articles Supplementary of the Registrant, effective August 9, 1996 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1.3, filed on August 6, 2008)</u></a>
3.1.4	<a href="#"><u>Certificate of Amendment of the Registrant, effective June 30, 1998 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1.4, filed on August 6, 2008)</u></a>
3.1.5	<a href="#"><u>Articles Supplementary of the Registrant, effective April 7, 2003 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1.5, filed on August 6, 2008)</u></a>
3.1.6	<a href="#"><u>Articles of Amendment of the Registrant, effective June 12, 2008 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 3.1.6, filed on August 6, 2008)</u></a>
3.1.7	<a href="#"><u>Articles of Amendment of the Registrant, effective May 19, 2009 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.1, filed on May 21, 2009)</u></a>
3.1.8	<a href="#"><u>Articles of Amendment of the Registrant, effective May 24, 2011 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.1, filed on May 20, 2011)</u></a>
3.1.9	<a href="#"><u>Articles of Amendment of the Registrant, effective May 18, 2012 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.1, filed on May 21, 2012)</u></a>
3.1.10	<a href="#"><u>Articles of Amendment of the Registrant, effective May 16, 2013 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.1, filed on May 21, 2013)</u></a>
3.2.1	<a href="#"><u>Amended and Restated Bylaws of the Registrant, as adopted on March 5, 2008 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.1, filed on March 11, 2008)</u></a>
3.2.2	<a href="#"><u>First Amendment to Amended and Restated Bylaws of the Registrant, as adopted on May 17, 2012 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.2, filed on May 21, 2012)</u></a>
3.2.3	<a href="#"><u>Second Amendment to Amended and Restated Bylaws of the Registrant, as adopted on May 22, 2018 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 3.1, filed on May 23, 2018)</u></a>
4.1	<a href="#"><u>Form of Common Stock Certificate (incorporated by reference to the Registrant's Registration Statement on Form S-11 (No. 333-08363), Exhibit 4.3, filed on August 6, 1996)</u></a>
4.2	<a href="#"><u>Indenture dated as of October 1, 2001 between Sequoia Mortgage Trust 5 and Bankers Trust Company of California, N.A., as Trustee (incorporated by reference to Sequoia Mortgage Funding Corporation's Current Report on Form 8-K, Exhibit 99.1, filed on November 15, 2001)</u></a>

**Exhibit  
Number**

**Exhibit**

- 4.3 [Indenture dated as April 1, 2002 between Sequoia Mortgage Trust 6 and Deutsche Bank National Trust Company, as Trustee \(incorporated by reference to Sequoia Mortgage Funding Corporation's Current Report on Form 8-K, Exhibit 99.1, filed on May 13, 2002\)](#)
- 4.4 [Junior Subordinated Indenture dated as of December 12, 2006 between the Registrant and The Bank of New York Trust Company, National Association, as Trustee \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.4, filed on December 12, 2006\)](#)
- 4.5 [Amended and Restated Trust Agreement dated December 12, 2006 among the Registrant, The Bank of New York Trust Company, National Association, The Bank of New York \(Delaware\), the Administrative Trustees \(as named therein\) and the several holders of the Preferred Securities from time to time \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.3, filed on December 12, 2006\)](#)
- 4.6 [Purchase Agreement dated December 12, 2006 among the Registrant, Redwood Capital Trust I and Merrill Lynch International \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.1, filed on December 12, 2006\)](#)
- 4.7 [Purchase Agreement dated December 12, 2006 among the Registrant, Redwood Capital Trust I and Bear, Stearns & Co. Inc. \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.2, filed on December 12, 2006\)](#)
- 4.8 [Subordinated Indenture dated as of May 23, 2007 between the Registrant and Wilmington Trust Company \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.2, filed on May 23, 2007\)](#)
- 4.9 [Purchase Agreement dated May 23, 2007 between the Registrant and Obsidian CDO Warehouse, LLC \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.1, filed on May 23, 2007\)](#)
- 4.10 [Indenture, dated as of November 28, 2012, among RCMC 2012-CREL1, LLC, as Issuer, KeyCorp Real Estate Capital Markets, Inc., as Advancing Agent, and Wells Fargo Bank, National Association, as Trustee, Paying Agent, Transfer Agent, Custodian, Backup Advancing Agent and Notes Registrar \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 4, 2012\)](#)
- 4.11 [Indenture, dated March 6, 2013, between Redwood Trust, Inc. and Wilmington Trust, National Association, as Trustee \(incorporated by reference to the Registrant's Current Report on Form 8-K/A, Exhibit 4.1, filed on March 6, 2013\)](#)
- 4.12 [First Supplemental Indenture, dated March 6, 2013, between Redwood Trust, Inc. and Wilmington Trust, National Association, as Trustee \(including the form of 4.625% Convertible Senior Note due 2018\) \(incorporated by reference to the Registrant's Current Report on Form 8-K/A, Exhibit 4.2, filed on March 6, 2013\)](#)
- 4.13 [Second Supplemental Indenture, dated August 18, 2017, between Redwood Trust, Inc. and Wilmington Trust, National Association, as Trustee \(including the form of 4.75% Convertible Senior Note due 2023\) \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 4.2, filed on August 18, 2017\)](#)
- 4.14 [Third Supplemental Indenture, dated June 25, 2018, between Redwood Trust, Inc. and Wilmington Trust, National Association, as Trustee \(including the form of 5.625% Convertible Senior Note due 2024\) \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 4.2, filed on June 25, 2018\)](#)
- 4.15 [Indenture, by and among Redwood Trust, Inc., RWT Holdings, Inc. and Wilmington Trust, National Association, as Trustee, dated as of November 24, 2014 \(including the form of 5.625% Exchangeable Senior Note due 2019\) \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 4.1, filed on November 25, 2014\)](#)
- 9.1 [Waiver Agreement dated as of November 15, 2007 between the Registrant and Davis Selected Advisors, L.P. \(incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 9.1, filed on March 5, 2008\)](#)
- 9.2 [Amendment of Waiver Agreement dated as of January 16, 2008 between Registrant and Davis Selected Advisors, L.P. \(incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 9.2, filed on March 5, 2008\)](#)
- 10.1\* [2014 Incentive Award Plan \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on May 23, 2014\)](#)
- 10.2\* [Amended and Restated 2014 Incentive Award Plan \(incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on May 22, 2018\)](#)
- 10.3\* [Form of Redwood Trust, Inc. Deferred Stock Unit Award Agreement under 2014 Incentive Award Plan \(2014\) \(incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.2, filed on August 8, 2014\)](#)

<b>Exhibit Number</b>	<b>Exhibit</b>
10.4*	<a href="#"><u>Form of Redwood Trust, Inc. Performance Stock Unit Award Agreement under 2014 Incentive Award Plan (2014) (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 19, 2016)</u></a>
10.5*	<a href="#"><u>Form of Redwood Trust, Inc. Restricted Stock Award Agreement under 2014 Incentive Award Plan (2014) (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.4, filed on August 8, 2014)</u></a>
10.6*	<a href="#"><u>Amended and Restated 1994 Executive and Non-Employee Director Stock Option Plan, as last amended January 24, 2002 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.14.5, filed on May 15, 2002)</u></a>
10.7*	<a href="#"><u>2002 Incentive Plan, as amended through May 16, 2013 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on May 21, 2013)</u></a>
10.8*	<a href="#"><u>Form of Employee Incentive Stock Option Grant Agreement under 2002 Incentive Plan (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.8.1, filed on March 16, 2005)</u></a>
10.9*	<a href="#"><u>Form of Employee Non-Qualified Stock Option Grant Agreement under 2002 Incentive Plan (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.8.2, filed on filed on March 16, 2005)</u></a>
10.10*	<a href="#"><u>Form of Amendment to Employee Non-Qualified Stock Option Grant Agreement under 2002 Incentive Plan (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on November 17, 2005)</u></a>
10.11*	<a href="#"><u>Form of Restricted Stock Award Agreement under 2002 Incentive Plan – Pre-December 2011 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.8.3, filed on March 16, 2005)</u></a>
10.12*	<a href="#"><u>Form of Deferred Stock Unit Award Agreement under 2002 Incentive Plan – Pre-December 2011 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 2, 2010)</u></a>
10.13*	<a href="#"><u>Form of Performance Stock Unit Award Agreement under 2002 Incentive Plan – Pre-December 2011 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on December 2, 2010)</u></a>
10.14*	<a href="#"><u>Form of Restricted Stock Award Agreement under 2002 Incentive Plan (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.3, filed on December 8, 2011)</u></a>
10.15*	<a href="#"><u>Form of Deferred Stock Unit Award Agreement under 2002 Incentive Plan (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 8, 2011)</u></a>
10.16*	<a href="#"><u>Form of Performance Stock Unit Award Agreement under 2002 Incentive Plan – December 2011 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on December 8, 2011)</u></a>
10.17*	<a href="#"><u>Form of Performance Stock Unit Award Agreement under 2002 Incentive Plan – December 2012 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 11, 2012)</u></a>
10.18*	<a href="#"><u>Form of Performance Stock Unit Award Agreement under 2014 Incentive Plan (2016 Form) (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 14, 2016)</u></a>
10.19*	<a href="#"><u>Form of Performance Stock Unit Award Agreement under 2014 Incentive Plan (2017 Form) (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 14, 2017)</u></a>
10.20*	<a href="#"><u>Form of Deferred Stock Unit Award Agreement under 2014 Incentive Plan (2018 Form of Award Agreement) (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on December 17, 2018)</u></a>
10.21*	<a href="#"><u>Form of Performance Stock Unit Award Agreement under 2014 Incentive Plan (2018 Form of Award Agreement) (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on December 17, 2018)</u></a>
10.22*	<a href="#"><u>Form of Letter Agreement Amendment to Equity Awards Under 2014 Incentive Plan (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.3, filed on December 17, 2018)</u></a>
10.23*	<a href="#"><u>Form of Restricted Stock Unit Award Agreement (2018 Form of Award Agreement) (filed herewith)</u></a>
10.24*	<a href="#"><u>2002 Employee Stock Purchase Plan, as amended through May 16, 2013 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on May 21, 2013)</u></a>

<b>Exhibit Number</b>	<b>Exhibit</b>
10.25*	<a href="#"><u>Executive Deferred Compensation Plan, as amended and restated on December 10, 2008 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.1, filed on January 14, 2009)</u></a>
10.26*	<a href="#"><u>First Amendment to Amended and Restated Executive Deferred Compensation Plan, effective as of November 23, 2013 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.15, filed on February 26, 2014)</u></a>
10.27*	<a href="#"><u>Second Amendment to Amended and Restated Executive Deferred Compensation Plan (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.1, filed on November 8, 2018)</u></a>
10.28*	<a href="#"><u>Direct Stock Purchase and Dividend Reinvestment Plan (incorporated by reference to the Plan text included in the Registrant's Prospectus Supplement filed on September 5, 2012)</u></a>
10.29*	<a href="#"><u>Summary of the Registrant's Compensation Arrangements for Non-Employee Directors (incorporated by reference to the "Director Compensation" section of the Registrant's Definitive Proxy Statement filed on March 28, 2018)</u></a>
10.30*	<a href="#"><u>Revised Form of Indemnification Agreement for Directors and Executive Officers (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 99.3, filed on November 16, 2009)</u></a>
10.31	<a href="#"><u>Office Building Lease, dated February 27, 2003 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.30.2, filed on March 12, 2004)</u></a>
10.32	<a href="#"><u>Office Building Lease (second floor), dated July 31, 2006 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.1, filed November 2, 2006)</u></a>
10.33	<a href="#"><u>Second Amendment to Lease, dated July 31, 2006 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.3, filed November 2, 2006)</u></a>
10.34	<a href="#"><u>Office Building Lease, effective as of and dated as of June 1, 2012 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.1, filed November 3, 2011)</u></a>
10.35	<a href="#"><u>First Amendment to Lease, effective as of May 25, 2017, between AG-SKB Belvedere Owner, L.P. and the Registrant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.1, filed on August 4, 2017)</u></a>
10.36	<a href="#"><u>Second Amendment to Lease, effective as of December 27, 2017, between AG-SKB Belvedere Owner, L.P. and the Registrant (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.30, filed on February 28, 2018)</u></a>
10.37	<a href="#"><u>Lease Agreement, dated as of January 11, 2013, between MG-Point, LLC, as Landlord, and the Registrant, as Tenant (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.22, filed on February 26, 2013)</u></a>
10.38	<a href="#"><u>First Amendment to Lease, effective as of June 27, 2013, between MG-Point, LLC, as Landlord, and the Registrant, as Tenant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.4, filed August 8, 2013)</u></a>
10.39	<a href="#"><u>Second Amendment to Lease, effective as of June 23, 2014, between MG-Point, LLC, as Landlord, and the Registrant, as Tenant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.7, filed August 8, 2014)</u></a>
10.40*	<a href="#"><u>Amended and Restated Employment Agreement, dated as of February 22, 2017, by and between Martin S. Hughes and the Registrant (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.31, filed February 24, 2017)</u></a>
10.41*	<a href="#"><u>Amended and Restated Employment Agreement, dated as of May 22, 2018, by and between Martin S. Hughes and the Registrant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.2, filed August 8, 2018)</u></a>
10.42*	<a href="#"><u>Amended and Restated Employment Agreement, dated as of March 31, 2009, by and between Brett D. Nicholas and the Registrant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.3, filed on May 5, 2009)</u></a>
10.43*	<a href="#"><u>First Amendment to Amended and Restated Employment Agreement, by and between Brett D. Nicholas and the Registrant, dated as of March 17, 2010 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on March 18, 2010)</u></a>

<b>Exhibit Number</b>	<b>Exhibit</b>
10.44*	<a href="#"><u>Second Amendment to Amended and Restated Employment Agreement, by and between Brett D. Nicholas and the Registrant, dated as of February 24, 2011 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.24, filed on February 24, 2011)</u></a>
10.45*	<a href="#"><u>Third Amendment to Amended and Restated Employment Agreement, by and between Brett D. Nicholas and the Registrant, dated as of May 17, 2012 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.4, filed on May 21, 2012)</u></a>
10.46*	<a href="#"><u>Fourth Amendment to Amended and Restated Employment Agreement, by and between Brett D. Nicholas and the Registrant, dated as of December 14, 2012 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.36, filed on February 26, 2013)</u></a>
10.47*	<a href="#"><u>Fifth Amendment to Amended and Restated Employment Agreement, by and between Brett D. Nicholas and the Registrant, dated as of August 6, 2014 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.6, filed on August 8, 2014)</u></a>
10.48*	<a href="#"><u>Sixth Amendment to Amended and Restated Employment Agreement, by and between Brett D. Nicholas and the Registrant, dated as of August 5, 2015 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.1, filed on November 6, 2015)</u></a>
10.49*	<a href="#"><u>Amended and Restated Employment Agreement, by and between Christopher J. Abate and the Registrant, dated as of February 22, 2017 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.49, filed on February 24, 2017)</u></a>
10.50*	<a href="#"><u>Second Amended and Restated Employment Agreement, dated as of May 22, 2018, by and between Christopher J. Abate and the Registrant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.3, filed August 8, 2018)</u></a>
10.51*	<a href="#"><u>Employment Agreement, by and between Fred J. Matera and the Registrant, dated as of January 1, 2016 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 10.2, filed on January 4, 2016)</u></a>
10.52*	<a href="#"><u>Amended and Restated Employment Agreement, by and between Andrew P. Stone and the Registrant, dated as of February 22, 2017 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.51, filed on February 24, 2017)</u></a>
10.53*	<a href="#"><u>Second Amended and Restated Employment Agreement, dated as of May 22, 2018, by and between Andrew P. Stone and the Registrant (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.5, filed August 8, 2018)</u></a>
10.54*	<a href="#"><u>Employment Agreement, by and between Dashiell I. Robinson and the Registrant, dated as of August 8, 2017 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.1, filed on November 7, 2017)</u></a>
10.55*	<a href="#"><u>Side Letter Agreement, by and between Dashiell I. Robinson and the Registrant, dated as of August 8, 2017 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.2, filed on November 7, 2017)</u></a>
10.56*	<a href="#"><u>First Amendment to Employment Agreement, by and between Dashiell I. Robinson and the Registrant, dated as of May 22, 2018 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.4, filed August 8, 2018)</u></a>
10.57	<a href="#"><u>Advances, Collateral Pledge, and Security Agreement between the Federal Home Loan Bank of Chicago and RWT Financial, LLC, dated as of July 16, 2014 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.8, filed on August 8, 2014)</u></a>
10.58	<a href="#"><u>Financial Covenant Supplement to Advances, Collateral Pledge, and Security Agreement between the Federal Home Loan Bank of Chicago and RWT Financial, LLC, dated as of July 16, 2014 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.9, filed on August 8, 2014)</u></a>
10.59	<a href="#"><u>Guaranty, dated July 16, 2014, given by Redwood Trust, Inc. in favor of the Federal Home Loan Bank of Chicago (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.10, filed on August 8, 2014)</u></a>
10.60	<a href="#"><u>Second Supplement to Advances, Collateral Pledge and Security Agreement between the Federal Home Loan Bank of Chicago and RWT Financial, LLC, dated as of February 19, 2015 (incorporated by reference to the Registrant's Annual Report on Form 10-K, Exhibit 10.53, filed on February 25, 2015)</u></a>

<b>Exhibit Number</b>	<b>Exhibit</b>
10.61	<a href="#"><u>Amendment to Advances, Collateral Pledge, and Security Agreement between the Federal Home Loan Bank of Chicago and RWT Financial, LLC, dated as of October 31, 2017 (incorporated by reference to the Registrant's Quarterly Report on Form 10-Q, Exhibit 10.3, filed on November 7, 2017)</u></a>
10.62	<a href="#"><u>Distribution Agreement by and among Redwood Trust, Inc., Wells Fargo Securities, LLC, J.P. Morgan Securities LLC, Credit Suisse Securities (USA) LLC, Goldman Sachs &amp; Co. LLC, and JMP Securities LLC, dated November 14, 2018 (incorporated by reference to the Registrant's Current Report on Form 8-K, Exhibit 1.1, filed on November 15, 2018)</u></a>
21	<a href="#"><u>List of Subsidiaries (filed herewith)</u></a>
23	<a href="#"><u>Consent of Grant Thornton LLP (filed herewith)</u></a>
31.1	<a href="#"><u>Certification of the Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)</u></a>
31.2	<a href="#"><u>Certification of the Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)</u></a>
32.1	<a href="#"><u>Certification of the Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith)</u></a>
32.2	<a href="#"><u>Certification of the Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (filed herewith)</u></a>
101	Pursuant to Rule 405 of Regulation S-T, the following financial information from the Registrant's Annual Report on Form 10-K for the period ended December 31, 2018, is filed in XBRL-formatted interactive data files: <ul style="list-style-type: none"> <li>(i) Consolidated Balance Sheets at December 31, 2018 and 2017;</li> <li>(ii) Consolidated Statements of Income for the years ended December 31, 2018, 2017, and 2016;</li> <li>(iii) Statements of Consolidated Comprehensive (Loss) Income for the years ended December 31, 2018, 2017, and 2016;</li> <li>(iv) Consolidated Statements of Changes in Equity for the years ended December 31, 2018, 2017, and 2016;</li> <li>(v) Consolidated Statements of Cash Flows for the years ended December 31, 2018, 2017, and 2016; and</li> <li>(vi) Notes to Consolidated Financial Statements.</li> </ul>

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\* Indicates exhibits that include management contracts or compensatory plan or arrangements.

#### ITEM 16. FORM 10-K SUMMARY

Not applicable.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, hereunto duly authorized.

REDWOOD TRUST, INC.

Date: February 28, 2019

By: /s/ CHRISTOPHER J. ABATE

Christopher J. Abate  
Chief Executive Officer

Pursuant to the requirements the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ CHRISTOPHER J. ABATE</u> Christopher J. Abate	Director and Chief Executive Officer (Principal Executive Officer)	February 28, 2019
<u>/s/ COLLIN L. COCHRANE</u> Collin L. Cochrane	Chief Financial Officer (Principal Financial Officer)	February 28, 2019
<u>/s/ LOLA BONDAR</u> Lola Bondar	Managing Director, Controller (Principal Accounting Officer)	February 28, 2019
<u>/s/ RICHARD D. BAUM</u> Richard D. Baum	Director, Chairman of the Board	February 28, 2019
<u>/s/ DOUGLAS B. HANSEN</u> Douglas B. Hansen	Director	February 28, 2019
<u>/s/ MARIANN BYERWALTER</u> Mariann Byerwalter	Director	February 28, 2019
<u>/s/ DEBORA D. HORVATH</u> Debora D. Horvath	Director	February 28, 2019
<u>/s/ GREG H. KUBICEK</u> Greg H. Kubicek	Director	February 28, 2019
<u>/s/ KAREN R. PALLOTTA</u> Karen R. Pallotta	Director	February 28, 2019
<u>/s/ JEFFREY T. PERO</u> Jeffrey T. Pero	Director	February 28, 2019
<u>/s/ GEORGANNE C. PROCTOR</u> Georganne C. Proctor	Director	February 28, 2019

**REDWOOD TRUST, INC.**  
**CONSOLIDATED FINANCIAL STATEMENTS,**  
**REPORTS OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**  
**For Inclusion in Annual Report on Form 10-K Filed With**  
**Securities and Exchange Commission**  
**December 31, 2018**



**INDEX TO CONSOLIDATED FINANCIAL STATEMENTS AND SCHEDULES**  
**REDWOOD TRUST, INC.**

	<u>Page</u>
Report of Independent Registered Public Accounting Firm	F- 3
Report of Independent Registered Public Accounting Firm	F- 4
Consolidated Balance Sheets at December 31, 2018 and 2017	F- 5
Consolidated Statements of Income for the Years Ended December 31, 2018, 2017, and 2016	F- 6
Statements of Consolidated Comprehensive Income for the Years Ended December 31, 2018, 2017, and 2016	F- 7
Consolidated Statements of Changes in Stockholders' Equity for the Years Ended December 31, 2018, 2017, and 2016	F- 8
Consolidated Statements of Cash Flows for the Years Ended December 31, 2018, 2017, and 2016	F- 9
Notes to Consolidated Financial Statements	F- 11
Note 1. Organization	F- 11
Note 2. Basis of Presentation	F- 11
Note 3. Summary of Significant Accounting Policies	F- 12
Note 4. Principles of Consolidation	F- 27
Note 5. Fair Value of Financial Instruments	F- 33
Note 6. Residential Loans	F- 48
Note 7. Business Purpose Residential Loans	F- 56
Note 8. Multifamily Loans	F- 58
Note 9. Real Estate Securities	F- 59
Note 10. Other Investments	F- 64
Note 11. Derivative Financial Instruments	F- 67
Note 12. Other Assets and Liabilities	F- 69
Note 13. Short-Term Debt	F- 71
Note 14. Asset-Backed Securities Issued	F- 73
Note 15. Long-Term Debt	F- 75
Note 16. Commitments and Contingencies	F- 77
Note 17. Equity	F- 81
Note 18. Equity Compensation Plans	F- 83
Note 19. Mortgage Banking Activities	F- 88
Note 20. Investment Fair Value Changes	F- 89
Note 21. Operating Expenses	F- 90
Note 22. Taxes	F- 91
Note 23. Segment Information	F- 93
Note 24. Quarterly Financial Data	F- 96
Note 25. Subsequent Events	F- 96
Schedule IV - Mortgage Loans on Real Estate	F- 97

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Shareholders  
Redwood Trust, Inc.

### Opinion on the financial statements

We have audited the accompanying consolidated balance sheets of Redwood Trust, Inc. (a Maryland corporation) and subsidiaries (the "Company") as of December 31, 2018 and 2017, the related consolidated statements of income, comprehensive income, changes in stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2018 and the related notes and schedule included under Item 15(a) (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2018 and 2017 and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with accounting principles generally accepted in the United States of America.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) ("PCAOB"), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in the 2013 *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"), and our report dated February 28, 2019 expressed an unqualified opinion.

### Basis for opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ GRANT THORNTON LLP

We have served as the Company's auditor since 2005.

Newport Beach, California  
February 28, 2019

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Shareholders  
Redwood Trust, Inc.

### Opinion on internal control over financial reporting

We have audited the internal control over financial reporting of Redwood Trust, Inc. (a Maryland corporation) and subsidiaries (the "Company") as of December 31, 2018, based on criteria established in the 2013 *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on criteria established in the 2013 *Internal Control—Integrated Framework* issued by COSO.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) ("PCAOB"), the consolidated financial statements of the Company as of and for the year ended December 31, 2018, and our report dated February 28, 2019 expressed an unqualified opinion on those financial statements.

### Basis for opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

### Definition and limitations of internal control over financial reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ GRANT THORNTON LLP

Newport Beach, California  
February 28, 2019

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**CONSOLIDATED BALANCE SHEETS**

(In Thousands, except Share Data)	December 31, 2018	December 31, 2017
<b>ASSETS <sup>(1)</sup></b>		
Residential loans, held-for-sale, at fair value	\$ 1,048,801	\$ 1,427,945
Residential loans, held-for-investment, at fair value	6,205,941	3,687,265
Business purpose residential loans, at fair value	141,258	—
Multifamily loans, held-for-investment, at fair value	2,144,598	—
Real estate securities, at fair value	1,452,494	1,476,510
Other investments	438,518	63,598
Cash and cash equivalents	175,764	144,663
Restricted cash	29,313	2,144
Accrued interest receivable	47,105	27,013
Derivative assets	35,789	15,718
Other assets	217,825	194,966
<b>Total Assets</b>	<b>\$ 11,937,406</b>	<b>\$ 7,039,822</b>
<b>LIABILITIES AND EQUITY <sup>(1)</sup></b>		
<b>Liabilities</b>		
Short-term debt <sup>(2)</sup>	\$ 2,400,279	\$ 1,938,682
Accrued interest payable	42,528	18,435
Derivative liabilities	84,855	63,081
Accrued expenses and other liabilities	78,719	67,729
Asset-backed securities issued, at fair value	5,410,073	1,164,585
Long-term debt, net	2,572,158	2,575,023
<b>Total liabilities</b>	<b>10,588,612</b>	<b>5,827,535</b>
Commitments and Contingencies (see <i>Note 16</i> )		
<b>Equity</b>		
Common stock, par value \$0.01 per share, 180,000,000 shares authorized; 84,884,344 and 76,599,972 issued and outstanding	849	766
Additional paid-in capital	1,811,422	1,673,845
Accumulated other comprehensive income	61,297	85,248
Cumulative earnings	1,409,941	1,290,341
Cumulative distributions to stockholders	(1,934,715)	(1,837,913)
<b>Total equity</b>	<b>1,348,794</b>	<b>1,212,287</b>
<b>Total Liabilities and Equity</b>	<b>\$ 11,937,406</b>	<b>\$ 7,039,822</b>

(1) Our consolidated balance sheets include assets of consolidated variable interest entities ("VIEs") that can only be used to settle obligations of these VIEs and liabilities of consolidated VIEs for which creditors do not have recourse to Redwood Trust, Inc. or its affiliates. At December 31, 2018 and December 31, 2017, assets of consolidated VIEs totaled \$6,331,191 and \$1,259,774, respectively. At December 31, 2018 and December 31, 2017, liabilities of consolidated VIEs totaled \$5,709,807 and \$1,167,157, respectively. See *Note 4* for further discussion.

(2) Includes \$201 million and \$250 million of convertible notes at December 31, 2018 and 2017, respectively, which were reclassified from Long-term debt, net to Short-term debt as the maturity of the notes was less than one year as of each of the dates presented. See *Note 13* for further discussion.

*The accompanying notes are an integral part of these consolidated financial statements.*

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF INCOME**

(In Thousands, except Share Data)	Years Ended December 31,		
	2018	2017	2016
<b>Interest Income</b>			
Residential loans	\$ 239,818	\$ 154,362	\$ 137,804
Commercial loans	—	345	30,496
Business purpose residential loans	4,333	—	—
Multifamily loans	21,322	—	—
Real estate securities	105,078	90,803	76,873
Other interest income	8,166	2,547	1,182
Total interest income	378,717	248,057	246,355
<b>Interest Expense</b>			
Short-term debt	(58,917)	(36,851)	(22,287)
Asset-backed securities issued	(99,429)	(19,108)	(14,735)
Long-term debt	(80,693)	(52,857)	(51,506)
Total interest expense	(239,039)	(108,816)	(88,528)
<b>Net Interest Income</b>	139,678	139,241	157,827
Reversal of provision for loan losses	—	—	7,102
<b>Net Interest Income after Provision</b>	139,678	139,241	164,929
<b>Non-interest Income</b>			
Mortgage banking activities, net	59,566	53,908	38,691
Investment fair value changes, net	(25,689)	10,374	(28,574)
Other income, net	12,874	12,436	20,691
Realized gains, net	27,041	13,355	28,009
Total non-interest income, net	73,792	90,073	58,817
Operating expenses	(82,782)	(77,156)	(88,786)
<b>Net Income before Provision for Income Taxes</b>	130,688	152,158	134,960
Provision for income taxes	(11,088)	(11,752)	(3,708)
<b>Net Income</b>	\$ 119,600	\$ 140,406	\$ 131,252
Basic earnings per common share	\$ 1.47	\$ 1.78	\$ 1.66
Diluted earnings per common share	\$ 1.34	\$ 1.60	\$ 1.54
Regular dividends declared per common share	\$ 1.18	\$ 1.12	\$ 1.12
Basic weighted average shares outstanding	78,724,912	76,792,957	76,747,047
Diluted weighted average shares outstanding	110,027,770	101,975,008	97,909,090

*The accompanying notes are an integral part of these consolidated financial statements.*

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Net Income</b>	\$ 119,600	\$ 140,406	\$ 131,252
Other comprehensive (loss) income:			
Net unrealized (loss) gain on available-for-sale securities	(7,298 )	22,864	(2,316 )
Reclassification of unrealized gain on available-for-sale securities to net income	(25,561 )	(10,536 )	(21,167 )
Net unrealized gain on interest rate agreements	8,908	1,022	3,271
Reclassification of unrealized loss on interest rate agreements to net income	—	45	72
<b>Total other comprehensive (loss) income</b>	<b>(23,951 )</b>	<b>13,395</b>	<b>(20,140 )</b>
<b>Total Comprehensive Income</b>	<b>\$ 95,649</b>	<b>\$ 153,801</b>	<b>\$ 111,112</b>

*The accompanying notes are an integral part of these consolidated financial statements.*

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY**

**For the Year Ended December 31, 2018**

(In Thousands, except Share Data)	Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income	Cumulative Earnings	Cumulative Distributions to Stockholders	Total
	Shares	Amount					
<b>December 31, 2017</b>	76,599,972	\$ 766	\$ 1,673,845	\$ 85,248	\$ 1,290,341	\$ (1,837,913 )	\$ 1,212,287
Net income	—	—	—	—	119,600	—	119,600
Other comprehensive loss	—	—	—	(23,951 )	—	—	(23,951 )
Issuance of common stock	8,738,319	88	142,140	—	—	—	142,228
Dividend reinvestment & stock purchase plans	113,004	1	1,705	—	—	—	1,706
Employee stock purchase and incentive plans	473,878	4	(4,470)	—	—	—	(4,466)
Non-cash equity award compensation	—	—	13,736	—	—	—	13,736
Share repurchases	(1,040,829)	(10)	(15,534)	—	—	—	(15,544)
Common dividends declared	—	—	—	—	—	(96,802 )	(96,802)
<b>December 31, 2018</b>	<u>84,884,344</u>	<u>\$ 849</u>	<u>\$ 1,811,422</u>	<u>\$ 61,297</u>	<u>\$ 1,409,941</u>	<u>\$ (1,934,715 )</u>	<u>\$ 1,348,794</u>

**For the Year Ended December 31, 2017**

(In Thousands, except Share Data)	Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income	Cumulative Earnings	Cumulative Distributions to Stockholders	Total
	Shares	Amount					
<b>December 31, 2016</b>	76,834,663	\$ 768	\$ 1,676,486	\$ 71,853	\$ 1,149,935	\$ (1,749,614 )	\$ 1,149,428
Net income	—	—	—	—	140,406	—	140,406
Other comprehensive income	—	—	—	13,395	—	—	13,395
Employee stock purchase and incentive plans	375,651	4	(3,838)	—	—	—	(3,834)
Non-cash equity award compensation	—	—	10,378	—	—	—	10,378
Share repurchases	(610,342)	(6)	(9,181)	—	—	—	(9,187)
Common dividends declared	—	—	—	—	—	(88,299 )	(88,299)
<b>December 31, 2017</b>	<u>76,599,972</u>	<u>\$ 766</u>	<u>\$ 1,673,845</u>	<u>\$ 85,248</u>	<u>\$ 1,290,341</u>	<u>\$ (1,837,913 )</u>	<u>\$ 1,212,287</u>

**For the Year Ended December 31, 2016**

(In Thousands, except Share Data)	Common Stock		Additional Paid-In Capital	Accumulated Other Comprehensive Income	Cumulative Earnings	Cumulative Distributions to Stockholders	Total
	Shares	Amount					
<b>December 31, 2015</b>	78,162,765	\$ 782	\$ 1,695,956	\$ 91,993	\$ 1,018,683	\$ (1,661,149 )	\$ 1,146,265
Net income	—	—	—	—	131,252	—	131,252
Other comprehensive loss	—	—	—	(20,140 )	—	—	(20,140)
Employee stock purchase and incentive plans	614,952	5	(7,030)	—	—	—	(7,025)
Non-cash equity award compensation	—	—	12,648	—	—	—	12,648
Share repurchases	(1,943,054)	(19)	(25,088)	—	—	—	(25,107)
Common dividends declared	—	—	—	—	—	(88,465 )	(88,465)
<b>December 31, 2016</b>	<u>76,834,663</u>	<u>\$ 768</u>	<u>\$ 1,676,486</u>	<u>\$ 71,853</u>	<u>\$ 1,149,935</u>	<u>\$ (1,749,614 )</u>	<u>\$ 1,149,428</u>

*The accompanying notes are an integral part of these consolidated financial statements.*

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Cash Flows From Operating Activities:</b>			
Net income	\$ 119,600	\$ 140,406	\$ 131,252
Adjustments to reconcile net income to net cash used in operating activities:			
Amortization of premiums, discounts, and debt issuance costs, net	(13,687)	(18,250)	(26,487)
Depreciation and amortization of non-financial assets	1,308	1,213	1,140
Purchases of held-for-sale loans	(7,162,131)	(5,705,842)	(4,953,619)
Proceeds from sales of held-for-sale loans	5,383,313	3,903,147	4,192,671
Principal payments on held-for-sale loans	66,892	52,956	80,033
Net settlements of derivatives	51,115	(9,950)	(7,301)
Reversal of provision for loan losses	—	—	(7,102)
Non-cash equity award compensation expense	13,736	10,378	12,648
Market valuation adjustments	(24,069)	(51,484)	12,917
Realized gains, net	(27,041)	(13,355)	(28,009)
Net change in:			
Accrued interest receivable and other assets	(41,849)	(17,562)	42,572
Accrued interest payable, deferred tax liabilities, and accrued expenses and other liabilities	21,080	(4,820)	3,632
Net cash used in operating activities	(1,611,733)	(1,713,163)	(545,653)
<b>Cash Flows From Investing Activities:</b>			
Purchases of loans held-for-investment	(147,523)	—	—
Proceeds from sales of loans held-for-investment	—	—	235,604
Principal payments on loans held-for-investment	781,063	523,561	798,831
Purchases of real estate securities	(609,568)	(600,875)	(318,268)
Proceeds from sales of real estate securities	582,331	228,420	497,191
Purchases of residential securities held in consolidated securitization trust	(227,649)	—	—
Purchases of multifamily securities held in consolidated securitization trusts	(107,411)	—	—
Principal payments on real estate securities	84,495	77,778	80,055
Purchases of servicer advance investments	(395,813)	—	—
Principal repayments from servicer advance investments	94,644	—	—
Sales of mortgage servicing rights, net	6,452	51,494	43,304
Purchases of excess MSRs	(25,489)	—	—
Net investment in participation in loan warehouse facility	(38,209)	—	—
Other investing activities, net	(10,075)	—	—
Net cash (used in) provided by investing activities	(12,752)	280,378	1,336,717



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**CONSOLIDATED STATEMENTS OF CASH FLOWS (CONTINUED)**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Cash Flows From Financing Activities:</b>			
Proceeds from borrowings on short-term debt	6,975,965	4,895,889	3,918,083
Repayments on short-term debt	(6,711,264)	(4,036,634)	(4,981,547)
Proceeds from issuance of asset-backed securities	1,658,848	567,100	—
Repayments on asset-backed securities issued	(459,171)	(205,163)	(261,351)
Proceeds from issuance of long-term debt	199,000	245,000	771,287
Deferred debt issuance costs	(4,977)	(7,380)	—
Repayments on long-term debt	—	—	(118,146)
Net settlements of derivatives	(291)	(137)	(156)
Net proceeds from issuance of common stock	142,601	302	304
Net payments on repurchase of common stock	(16,315)	(8,417)	(28,073)
Taxes paid on equity award distributions	(4,839)	(4,136)	(7,329)
Dividends paid	(96,802)	(88,299)	(88,465)
Net cash provided by (used in) financing activities	1,682,755	1,358,125	(795,393)
Net increase (decrease) in cash and cash equivalents	58,270	(74,660)	(4,329)
Cash, cash equivalents and restricted cash at beginning of period <sup>(1)</sup>	146,807	221,467	225,796
Cash, cash equivalents and restricted cash at end of period <sup>(1)</sup>	<u>\$ 205,077</u>	<u>\$ 146,807</u>	<u>\$ 221,467</u>
<b>Supplemental Cash Flow Information:</b>			
Cash paid during the period for:			
Interest	\$ 207,014	\$ 103,279	\$ 87,164
Taxes	10,594	2,746	1,303
<b>Supplemental Noncash Information:</b>			
Real estate securities retained from loan securitizations	\$ 51,911	\$ 79,662	\$ 9,127
Retention of mortgage servicing rights from loan securitizations and sales	328	7,387	10,060
Consolidation of residential loans held in securitization trust	1,206,645	—	—
Consolidation of residential ABS	978,996	—	—
Consolidation of multifamily loans held in securitization trusts	2,099,916	—	—
Consolidation of multifamily ABS	1,975,324	—	—
Transfers from loans held-for-sale to loans held-for-investment	2,062,809	1,245,430	1,063,860
Transfers from loans held-for-investment to loans held-for-sale	15,717	98,854	359,005
Transfers from residential loans to real estate owned	4,104	4,220	11,632

(1) Cash, cash equivalents, and restricted cash at December 31, 2018 included cash and cash equivalents of \$176 million and restricted cash of \$29 million; at December 31, 2017 included cash and cash equivalents of \$145 million and restricted cash of \$2 million; and at December 31, 2016 included cash and cash equivalents of \$213 million and restricted cash of \$9 million.

*The accompanying notes are an integral part of these consolidated financial statements.*

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 1. Organization**

Redwood Trust, Inc., together with its subsidiaries, is a specialty finance company focused on making credit-sensitive investments in single-family residential and multifamily mortgages and related assets and engaging in mortgage banking activities. Our goal is to provide attractive returns to shareholders through a stable and growing stream of earnings and dividends, as well as through capital appreciation. We operate our business in two segments: Investment Portfolio and Mortgage Banking.

Our primary sources of income are net interest income from our investment portfolios and non-interest income from our mortgage banking activities. Net interest income consists of the interest income we earn on investments less the interest expense we incur on borrowed funds and other liabilities. Income from mortgage banking activities is generated through the acquisition of loans and their subsequent sale or securitization.

Redwood Trust, Inc. has elected to be taxed as a real estate investment trust ("REIT") under the Internal Revenue Code of 1986, as amended (the "Internal Revenue Code"), beginning with its taxable year ended December 31, 1994. We generally refer, collectively, to Redwood Trust, Inc. and those of its subsidiaries that are not subject to subsidiary-level corporate income tax as "the REIT" or "our REIT." We generally refer to subsidiaries of Redwood Trust, Inc. that are subject to subsidiary-level corporate income tax as "our operating subsidiaries" or "our taxable REIT subsidiaries" or "TRS."

Redwood was incorporated in the State of Maryland on April 11, 1994, and commenced operations on August 19, 1994. References herein to "Redwood," the "company," "we," "us," and "our" include Redwood Trust, Inc. and its consolidated subsidiaries, unless the context otherwise requires. Refer to Item 1 - *Business* in this Annual Report on Form 10-K for additional information on our business.

**Note 2. Basis of Presentation**

The consolidated financial statements presented herein are at December 31, 2018 and December 31, 2017, and for the years ended December 31, 2018, 2017, and 2016. These consolidated financial statements have been prepared in accordance with U.S. generally accepted accounting principles ("GAAP") — as prescribed by the Financial Accounting Standards Board's ("FASB") Accounting Standards Codification ("ASC") — and the rules and regulations of the Securities and Exchange Commission ("SEC"). In the opinion of management, all normal and recurring adjustments to present fairly the financial condition of the Company at December 31, 2018 and 2017, and results of operations for all periods presented have been made.

***Principles of Consolidation***

In accordance with GAAP, we determine whether we must consolidate transferred financial assets and variable interest entities ("VIEs") for financial reporting purposes. We currently consolidate the assets and liabilities of certain Sequoia securitization entities issued prior to 2012 where we maintain an ongoing involvement ("Legacy Sequoia"), as well as entities formed in connection with the securitization of Redwood Choice expanded-prime loans beginning in the third quarter of 2017 ("Sequoia Choice"). In addition, we consolidated the assets and liabilities of certain third-party Freddie Mac K-Series securitizations beginning in the third quarter of 2018, and the assets and liabilities of one third-party Freddie Mac SLST securitization beginning in the fourth quarter of 2018. Each securitization entity is independent of Redwood and of each other and the assets and liabilities are not owned by and are not legal obligations of Redwood Trust, Inc. Our exposure to these entities is primarily through the financial interests we have purchased or retained, although for the consolidated Sequoia entities we are exposed to certain financial risks associated with our role as a sponsor, servicing administrator, or depositor of these entities or as a result of our having sold assets directly or indirectly to these entities.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 2. Basis of Presentation - (continued)**

For financial reporting purposes, the underlying loans owned at the consolidated Sequoia and Freddie Mac SLST entities are shown under Residential loans held-for-investment at fair value, and the underlying loans at the consolidated Freddie Mac K-Series are shown under Multifamily loans held-for-investment, at fair value, on our consolidated balance sheets. The asset-backed securities ("ABS") issued to third parties by these entities are shown under ABS issued. In our consolidated statements of income, we recorded interest income on the loans owned at these entities and interest expense on the ABS issued by these entities as well as other income and expenses associated with these entities' activities. See *Note 14* for further discussion on ABS issued.

Beginning in the fourth quarter of 2018, we consolidated two partnerships ("Servicing Investment" entities) through which we have invested in servicing-related assets. We maintain an 80% ownership interest in each entity and have determined that we are the primary beneficiary of these partnerships.

See *Note 4* for further discussion on principles of consolidation.

***Use of Estimates***

The preparation of financial statements requires us to make a number of significant estimates. These include estimates of fair value of certain assets and liabilities, amounts and timing of credit losses, prepayment rates, and other estimates that affect the reported amounts of certain assets and liabilities as of the date of the consolidated financial statements and the reported amounts of certain revenues and expenses during the reported periods. It is likely that changes in these estimates (e.g., valuation changes due to supply and demand, credit performance, prepayments, interest rates, or other reasons) will occur in the near term. Our estimates are inherently subjective in nature and actual results could differ from our estimates and the differences could be material.

**Note 3. Summary of Significant Accounting Policies**

***Significant Accounting Policies***

**Fair Value Measurements**

Our consolidated financial statements include assets and liabilities that are measured at their estimated fair values in accordance with GAAP. A fair value measurement represents the price at which an orderly transaction would occur between willing market participants at the measurement date.

We develop fair values for financial assets or liabilities based on available inputs and pricing that is observed in the marketplace. After considering all available indications of the appropriate rate of return that market participants would require, we consider the reasonableness of the range indicated by the results to determine an estimate that is most representative of fair value.

The markets for many of the assets that we invest in and issue are generally illiquid. Establishing fair values for illiquid assets and liabilities is inherently subjective and is often dependent upon our estimates and modeling assumptions. If we determine that either the volume and/or level of trading activity for an asset or liability has significantly decreased from normal market conditions, or price quotations or observable inputs are not associated with orderly transactions, the market inputs that we obtain might not be relevant. For example, broker or pricing service quotes might not be relevant if an active market does not exist for the financial asset or liability. The nature of the quote (for example, whether the quote is an indicative price or a binding offer) is also evaluated.

In circumstances where relevant market inputs cannot be obtained, increased analysis and management judgment are required to estimate fair value. This generally requires us to establish internal assumptions about future cash flows and appropriate risk-adjusted discount rates. Regardless of the valuation inputs we apply, the objective of fair value measurement for assets is unchanged from what it would be if markets were operating at normal activity levels and/or transactions were orderly; that is, to determine the current exit price.

See *Note 5* for further discussion on fair value measurements.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

*Fair Value Option*

We have the option to measure eligible financial assets, financial liabilities, and commitments at fair value on an instrument-by-instrument basis. This option is available when we first recognize a financial asset or financial liability or enter into a firm commitment. Subsequent changes in the fair value of assets, liabilities, and commitments where we have elected the fair value option are recorded in our consolidated statements of income.

We elect the fair value option for certain residential loans, interest-only ("IO") and certain subordinate securities, MSR, servicer advance investments, and excess MSR. We generally elect the fair value option for residential loans that are held-for-sale, due to our intent to sell or securitize the loans in the near-term. We elect the fair value option for our IO and certain subordinate securities, and MSR, for which we generally hedge market interest rate risk. As such, we seek to offset interest rate related changes in the values of these investments with changes in the values of their associated hedges through our consolidated statements of income. In addition, we elect the fair value option for the assets and liabilities of our consolidated Sequoia, Freddie Mac SLST, and Freddie Mac K-Series entities in accordance with GAAP accounting for collateralized financing entities ("CFEs").

See Note 5 for further discussion on the fair value option.

*Real Estate Loans*

*Residential Loans - Held-for-Sale at Fair Value*

Residential loans held-for-sale include loans that we are marketing for sale to third parties, including transfers to securitization entities that we plan to sponsor. We generally elect the fair value option for residential loans that we purchase with the intent to sell to third parties or transfer to Sequoia securitizations. Coupon interest is recognized as revenue when earned and deemed collectible or until a loan becomes more than 90 days past due, at which point the loan is placed on nonaccrual status. When a seriously delinquent loan previously placed on nonaccrual status has cured, meaning all delinquent principal and interest have been remitted by the borrower, the loan is placed back on accrual status. Changes in fair value for these loans are recurring and are reported through our consolidated statements of income in Mortgage banking activities, net.

*Residential Loans - Held-for-Sale at Lower of Cost or Market*

Loans held-for-sale at lower of cost or market include certain residential loans. These loans are recorded and subsequently reported at the lower of their initial carrying amount or current fair value. Coupon interest is recognized as revenue when earned and deemed collectible or until a loan becomes more than 90 days past due, at which point the loan is placed on nonaccrual status. Loans delinquent more than 90 days or in foreclosure are characterized as a serious delinquency. Cash principal and interest that is advanced from servicers subsequent to a residential loan becoming greater than 90 days past due is accounted for as a reduction in the outstanding loan principal balance. When a seriously delinquent loan previously placed on nonaccrual status has cured, meaning all delinquent principal and interest have been remitted by the borrower, the loan is placed back on accrual status. Changes in fair value are non-recurring and are reported through our consolidated statements of income in Mortgage banking activities, net.

*Residential Loans Held-for-Investment - At Fair Value*

Certain loans that were originally purchased with the intent to sell as part of our residential mortgage banking operations, and for which we elected the fair value option at acquisition, were subsequently reclassified to held-for-investment ("HFI") when the loans were transferred to our Federal Home Loan Bank of Chicago ("FHLBC") member subsidiary and pledged as collateral for borrowings made from the FHLBC. As of December 31, 2018, our current intent is to hold these loans for longer-term investment while they are financed by the FHLBC.

In addition, we record residential loans held at consolidated Sequoia and Freddie Mac SLST entities at fair value. In accordance with accounting guidance for CFEs, we use the fair value of the ABS issued by these entities (which we determined to be more observable) to determine the fair value of the loans held at these entities.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

Coupon interest for these loans is recognized as revenue when earned and deemed collectible or until a loan becomes more than 90 days past due, at which point the loan is placed on nonaccrual status. When a seriously delinquent loan previously placed on nonaccrual status has cured, meaning all delinquent principal and interest have been remitted by the borrower, the loan is placed back on accrual status. Changes in fair value for these loans are recurring and are reported through our consolidated statements of income in Investment fair value changes, net.

*Business Purpose Residential Loans at Fair Value*

Business purpose residential loans include loans to investors in single-family rental properties ("Single-family rental loans") and loans to investors rehabilitating and reselling or renting residential properties ("Residential bridge loans"). Our single-family rental loans are held-for-sale at fair value, as we have purchased these loans with the intent to sell to third parties or transfer to securitization entities. Residential bridge loans generally have a term of less than two years and are carried as held-for-investment at fair value, as we generally intend to hold these loans to maturity.

Coupon interest for these loans is recognized as revenue when earned and deemed collectible or until a loan becomes more than 90 days past due, at which point the loan is placed on nonaccrual status, unless in the case of residential bridge loans, they are both well-secured and in the process of collection. When a seriously delinquent loan previously placed on nonaccrual status has cured, meaning all delinquent principal and interest have been remitted by the borrower, the loan is placed back on accrual status. Changes in fair value are recurring and reported through our consolidated statements of income in Mortgage banking activities, net and Investment fair value changes, net for single-family rental loans and residential bridge loans, respectively.

*Multifamily Loans, Held-for-Investment at Fair Value*

Multifamily loans are mortgage loans secured by multifamily properties, held in Freddie Mac-sponsored K-series securitization trusts that we consolidate. In accordance with accounting guidance for collateralized financing entities ("CFEs"), we use the fair value of the ABS issued by the Freddie Mac K-Series entities (which we determined to be more observable) to determine the fair value of the loans held at these entities. Coupon interest for these loans is recognized as revenue when earned and deemed collectible or, until a loan becomes more than 90 days past due, at which point the loan is placed on nonaccrual status. When a seriously delinquent loan previously placed on nonaccrual status has cured, meaning all delinquent principal and interest have been remitted by the borrower, the loan is placed back on accrual status. Changes in fair value for the assets and liabilities of these trusts are recurring and are reported through our consolidated statements of income in Investment fair value changes, net.

*Repurchase Reserves*

We sell and have sold residential mortgage loans to various parties, including (1) securitization trusts, (2) Fannie Mae and Freddie Mac ("the Agencies"), and (3) banks and other financial institutions that purchase mortgage loans for investment or private label securitization. We may be required to repurchase residential mortgage loans we have sold, or loans associated with MSR we have purchased, in the event of a breach of specified contractual representations and warranties made in connection with these sales and purchases. With respect to MSR we purchased, if the associated residential loan was sold to one of the Agencies (which was typically the case), that Agency can require us, as the owner of the MSR, to repurchase the residential loan in the event of such a breach of representations and warranties even though we were not the party that sold the associated loan to that Agency. In January 2016, we discontinued the acquisition and aggregation of conforming loans for resale to the Agencies.

We do not originate residential mortgage loans and believe the initial risk of loss due to loan repurchases (i.e., due to a breach of representations and warranties) would generally be a contingency to the companies from whom we acquired the loans or MSR. However, in some cases, such as where loans or MSR were acquired from companies that have since become insolvent, we may have to bear the loss associated with a loan repurchase. Furthermore, even if we do not have to ultimately bear such a loss because we can recover from the company that sold us the loan or the MSR, there could be a delay in making that recovery.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

We establish reserves for mortgage repurchase liabilities related to various representations and warranties that reflect management's estimate of losses for loans for which we could have a repurchase obligation, based on a combination of factors. Such factors can include estimated future defaults and loan repurchase rates, the potential severity of loss in the event of defaults, and the probability of our being liable for a repurchase obligation. We establish a reserve at the time loans are sold and MSRs are purchased and continually update our reserve estimate during its life. The reserve for mortgage loan repurchase losses is included in other liabilities on our consolidated balance sheets and the related expense is included as a component of Mortgage banking activities, net on our consolidated statements of income.

See *Note 16* for further discussion on the residential repurchase reserves.

*Real Estate Securities, at Fair Value*

Our securities primarily consist of residential mortgage-backed securities ("RMBS") as well as commercial mortgage-backed securities, which are primarily comprised of investments in multifamily securities. We classify our real estate securities as trading or available-for-sale securities.

Nearly all of our residential securities are supported by collateral designated as prime at the time of issuance. Prime residential loans are generally characterized by lower loan-to-value ("LTV") ratios at the time the loans were originated, and are made to borrowers with higher Fair Isaac Corporation ("FICO") scores.

The multifamily securities we invest in are primarily subordinate positions in securitizations sponsored by Freddie Mac that are comprised of loans collateralized by multifamily properties. We may also invest in other third-party sponsored commercial mortgage-backed securities.

*Trading Securities*

We primarily denote trading securities as those securities where we have adopted the fair value option. Trading securities are carried at their estimated fair values. Coupon interest is recognized as interest income when earned and deemed collectible. Changes in the fair value of securities designated as trading securities are reported in Investment fair value changes, net on our consolidated statements of income.

*Available-for-Sale Securities*

AFS securities are carried at their estimated fair value with unrealized gains and losses excluded from earnings (except when an other-than-temporary impairment ("OTTI") is recognized, as discussed below) and reported in Accumulated other comprehensive income ("AOCI"), a component of stockholders' equity.

Interest income on AFS securities is accrued based on their outstanding principal balance and contractual terms and interest income is recognized based on the security's effective interest rate. In order to calculate the effective interest rate, we must project cash flows over the remaining life of each security and make assumptions with regards to interest rates, prepayment rates, the timing and amount of credit losses, and other factors. On at least a quarterly basis, we review and, if appropriate, make adjustments to our cash flow projections based on input and analysis received from external sources, internal models, and our own judgments about interest rates, prepayment rates, the timing and amount of credit losses, and other factors. Changes in cash flows from those originally projected, or from those estimated at the last evaluation, may result in a prospective change in the yield and interest income recognized on these securities or in the recognition of OTTI as discussed below.

For AFS securities purchased and held at a discount, a portion of the discount may be designated as non-accretable purchase discount ("credit reserve"), based on the cash flows we have projected for the security. The amount designated as credit reserve may be adjusted over time, based on our periodic evaluation of projected cash flows. If the performance of a security with a credit reserve is more favorable than previously forecasted, a portion of the credit reserve may be reallocated to accretable discount and recognized into interest income over time. Conversely, if the performance of a security with a credit reserve is less favorable than forecasted, the amount designated as credit reserve may be increased, or impairment charges and write-downs of such securities to a new cost basis could result.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

When the fair value of an AFS security is less than its amortized cost at the reporting date, the security is considered impaired. We assess our impaired securities at least quarterly to determine if the impairment is temporary or other-than-temporary (resulting in an OTTI). If we either - (i) intend to sell the impaired security; (ii) will more likely than not be required to sell the impaired security before it recovers in value; or (iii) if there has been an adverse change in cash flows - the impairment is deemed an OTTI. In the case of criteria (i) and (ii), we record the entire difference between the security's estimated fair value and its amortized cost at the reporting date as an impairment through market valuation adjustments on our consolidated statements of income. If there has been an adverse change in cash flows, only the portion of the OTTI related to "credit" losses is recognized through other market valuation adjustments on our consolidated statements of income, with the remaining "non-credit" portion recognized through AOCI on our consolidated balance sheets. If the first two criteria are not met and there has not been an adverse change in cash flows, the impairment is considered temporary and the entire unrealized loss is recognized through AOCI on our consolidated balance sheets.

For impaired AFS securities, to determine if there has been an adverse change in cash flows and if any portion of a resulting OTTI is related to credit losses, we compare the present value of the cash flows expected to be collected as of the current financial reporting date to the amortized cost basis of the security. The discount rate used to calculate the present value of expected future cash flows is the current yield used for income recognition purposes. If the present value of the current expected cash flows is less than the amortized cost basis, there has been an adverse change and the security is considered OTTI with the difference between these two amounts representing the credit loss. The determination as to whether an OTTI exists and, if so, the amount of credit impairment recognized in earnings is subjective, and based on information available at the time of the assessment as well as our estimates of future performance and cash flows. As a result, the timing and amount of OTTI constitute a material estimate that is susceptible to significant change.

See *Note 9* for further discussion on real estate securities.

*Other Investments*

*Servicer Advance Investments*

Our servicer advance investments are comprised of outstanding servicer advances receivable, the requirement to purchase all future servicer advances made with respect to a specified pool of residential mortgage loans and a fee component of the related MSR. We have elected to record these investments at fair value. We recognize income from our servicer advance investments when earned and deemed collectible and record the income as a component of Other interest income in our consolidated statements of income. Our servicer advance investments are marked-to-market on a recurring basis with changes in the fair value reported in Investment fair value changes, net on our consolidated statements of income.

See *Note 10* for further discussion on our servicer advance investments.

*MSRs*

We recognize MSRs through the retention of servicing rights associated with residential mortgage loans that we acquired and subsequently transferred to third parties when the transfer meets the GAAP criteria for sale accounting, or through the direct acquisition of MSRs sold by third parties.

We contract with licensed sub-servicers to perform servicing functions for loans associated with our MSRs. We have elected the fair value option for all of our MSRs, and they are initially recognized and subsequently carried at their estimated fair values. Servicing fee income from MSRs is recorded on a cash basis when received. Net servicing income and changes in the estimated fair value of MSRs are reported in Other income, net on our consolidated statements of income.

See *Note 10* for further discussion on MSRs.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

*Participation in Loan Warehouse Facility*

During 2018, we invested in a subordinated participation in a revolving mortgage loan warehouse facility of one of our loan sellers. We account for this subordinated participation interest as a loan receivable at amortized cost, and all associated interest income is recorded as a component of Other interest income in our consolidated statements of income.

*Excess MSRs*

Our excess MSR investments represent the right to receive a portion of mortgage servicing cash flows in excess of amounts paid for the underlying mortgage loans to be serviced. As owners of excess MSRs, we are not required to be a licensed servicer, and we are not required to assume any servicing duties, advance obligations or liabilities associated with the loan pool underlying the MSR. We have elected to record these investments at fair value. We recognize income from Excess MSRs when it is earned and deemed collectible and record the income as a component of Other interest income in our consolidated statements of income. Changes in fair value are recurring and are reported through our consolidated statements of income in Investment fair value changes, net.

*Investment in 5 Arches*

During 2018, we acquired a 20% minority interest in 5 Arches, LLC ("5 Arches"), an originator and asset manager of business purpose residential mortgage loans. We account for our ownership interest in 5 Arches using the equity method of accounting as we are able to exert significant influence over but do not control the activities of the investee. We monitor the financial performance of 5 Arches and periodically evaluate this investment for impairment. We have elected to record our share of earnings or losses from 5 Arches on a one-quarter lag.

*Cash and Cash Equivalents*

Cash and cash equivalents include non-restricted cash and highly liquid investments with original maturities of three months or less. The Company maintains its cash and cash equivalents with major financial institutions. Accounts at these institutions are guaranteed by the Federal Deposit Insurance Corporation ("FDIC") up to \$250,000 for each bank. The Company is exposed to credit risk for amounts held in excess of the FDIC limit. The Company does not anticipate nonperformance by these institutions.

*Restricted Cash*

Restricted cash primarily includes cash held in association with borrowings from the Federal Home Loan Bank of Chicago, cash held at our consolidated Servicing Investment entities, and cash associated with our risk-sharing transactions with the Agencies, as well as principal and interest payments that are collateral for, or payable to, owners of ABS issued by consolidated securitization entities.

*Accrued Interest Receivable*

Accrued interest receivable includes interest that is due and payable to us and deemed collectible. Cash interest is generally received within thirty days of recording the receivable. For financial assets where we have elected the fair value option, the associated accrued interest receivable on these assets is measured at fair value. For financial assets where we have not elected the fair value option, the associated accrued interest carrying values approximate fair values.

*Derivative Financial Instruments*

Derivative financial instruments we typically utilize include swaps, swaptions, financial futures contracts, and "To Be Announced" ("TBA") contracts. These derivatives are primarily used to manage interest rate risk associated with our operations. In addition, we enter into certain residential loan purchase commitments ("LPCs") and residential loan forward sale commitments ("FSCs") that are treated as derivatives for financial reporting purposes. All derivative financial instruments are recorded at their estimated fair value on our consolidated balance sheets. Derivatives with positive fair values to us are reported as assets and derivatives with negative fair values to us are reported as liabilities. We classify each derivative as either (i) a trading instrument (no specific hedging designation for financial reporting purposes) or (ii) a hedge of a forecasted transaction or of the variability of cash flows to be received or paid related to a recognized asset or liability (cash flow hedge).



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

Changes in the fair values of derivatives accounted for as trading instruments, including any associated interest income or expense, are recorded in our consolidated statements of income through Other income, net if they are used to manage risks associated with our MSR investments, through Mortgage banking activities, net if they are used to manage risks associated with our mortgage banking activities, or through Investment fair value changes, net if they are used to manage risks associated with our investments. Valuation changes related to residential LPCs and FSCs are included in Mortgage banking activities, net on our consolidated statements of income.

Changes in the fair values of derivatives accounted for as cash flow hedges, to the extent they are effective, are recorded in Accumulated other comprehensive income, a component of equity on our consolidated balance sheets. Interest income or expense, and any ineffectiveness associated with these derivatives, are recorded as a component of net interest income in our consolidated statements of income. We measure the effective portion of cash flow hedges by comparing the change in fair value of the expected future variable cash flows of the derivative hedging instruments with the change in fair value of the expected future variable cash flows of the hedged item.

We will discontinue a designated cash flow hedge relationship if (i) we determine that the hedging derivative is no longer expected to be effective in offsetting changes in the cash flows of the designated hedged item; (ii) the derivative expires or is sold, terminated, or exercised; (iii) the derivative is de-designated as a cash flow hedge; or (iv) it is probable that a forecasted transaction associated with the hedged item will not occur by the end of the originally specified time period. To the extent we de-designate or terminate a cash flow hedging relationship and the associated hedged item continues to exist, any unrealized gain or loss of the cash flow hedge at the time of de-designation remains in accumulated other comprehensive income and is amortized using the straight-line method through interest expense over the remaining life of the hedged item.

*Swaps and Swaptions*

Interest rate swaps are agreements in which (i) one counterparty exchanges a stream of fixed interest payments for another counterparty's stream of variable interest cash flows; or (ii) each counterparty exchanges variable interest cash flows that are referenced to different indices. Interest rate swaptions are agreements that provide the owner the right but not the obligation to enter into an underlying interest rate swap with a counterparty in the future. We enter into swap and swaptions primarily to reduce significant changes in our income or equity caused by interest rate volatility. Certain of these interest rate agreements may be designated as cash flow hedges.

*Financial Futures*

Financial futures are futures contracts on benchmark U.S. Treasury rates.

*TBA Agreements*

TBA agreements are forward contracts to purchase mortgage-backed securities that will be issued by a U.S. government sponsored enterprise in the future. We purchase or sell these derivatives to offset - to varying degrees - changes in the values of mortgage products for which we have exposure to interest rate volatility.

*Loan Purchase and Forward Sale Commitments*

We use the term LPCs to refer to agreements with third-party residential loan originators to purchase residential loans at a future date that qualify as a derivative under GAAP and we use the term FSCs to refer to agreements with third-parties to sell residential loans at a future date that also qualify as derivatives under GAAP. LPCs and FSCs are recorded at their estimated fair values on our consolidated balance sheets and changes in fair value are recurring and are reported through our consolidated statements of income in Mortgage banking activities, net.

See *Note 11* for further discussion on derivative financial instruments.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

*Deferred Tax Assets and Liabilities*

Our deferred tax assets/liabilities are generated by temporary differences in GAAP and taxable income at our taxable subsidiaries. These differences generally reflect differing accounting treatments for GAAP and tax, such as accounting for mortgage servicing rights, security discount and premium amortization, credit losses, asset impairments, and certain valuation estimates. As a result of these differences, we may recognize taxable income in periods prior to when we recognize income for GAAP. When this occurs, we pay the tax liability as required and establish a deferred tax asset. As the income is subsequently realized in future periods under GAAP, the deferred tax asset is reduced. We may also recognize GAAP income in periods prior to when we recognize income for tax. When this occurs, we establish a deferred tax liability for GAAP. As the income is subsequently realized in future periods for tax, the deferred tax liability is reduced.

In assessing the realizability of deferred tax assets, we consider whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. We consider historical and projected future taxable income and capital gains as well as tax planning strategies in making this assessment. We determine the extent to which realization of this deferred asset is not assured and establish a valuation allowance accordingly. The estimate of net deferred tax assets could change in future periods to the extent that actual or revised estimates of future taxable income during the carryforward periods change from current expectations.

*Other Assets and Other Liabilities*

Other assets primarily consists of margin receivable, FHLBC stock, pledged collateral, investment receivable, fixed assets and leasehold improvements, and REO. Other liabilities primarily consists of accrued compensation, payable to minority partner, guarantee obligations, deferred tax liabilities, margin payable, and residential loan and MSR repurchase reserves. See *Note 12* for further discussion.

*FHLBC Stock*

In accordance with its borrowing agreement with the FHLBC, our FHLB-member subsidiary is required to purchase and hold stock in the FHLBC in an amount equal to a specified percentage of outstanding advances. FHLBC stock is considered a non-marketable, long-term investment, and is carried at cost. Because this stock can only be redeemed or sold at its par value, and only to the FHLBC, carrying value, or cost, approximates fair value. Dividends received from FHLBC stock are recorded in other income, net in our consolidated statements of income.

*Margin Receivable and Payable*

Margin receivable and payable result from margin calls between us and our derivatives, master repurchase agreements, and warehouse facilities counterparties, whereby we or the counterparty were required to post collateral.

*Agency Risk-Sharing - Other Assets and Liabilities*

During 2014 and 2015, we entered into various risk-sharing arrangements with Fannie Mae and Freddie Mac. Under these arrangements, we committed to assume the first 1.00% or 2.25% (depending on the arrangement) of losses realized on reference pools of conforming residential mortgage loans that we acquired and then sold to the Agencies. As part of these risk-sharing arrangements, during the 10-year term of our first Fannie Mae arrangement, we receive monthly cash payments from Fannie Mae based on the monthly outstanding unpaid principal balance of the reference pool of loans, and for our Freddie Mac and our subsequent Fannie Mae arrangements, the Agencies charged us a reduced guarantee fee for the reference loans we delivered to them in exchange for mortgage-backed securities, which we then sold.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

Under these arrangements we are required to pledge assets to the Agencies to collateralize our risk-sharing commitments to them throughout the terms of the arrangements. These pledged assets are held by a third-party custodian for the benefit of the Agencies. To the extent approved losses are incurred, the custodian will transfer collateral to the Agencies. As a result of these transactions, we recorded "pledged collateral" in the other assets line item, and "guarantee obligations" in the other liabilities line item, on our consolidated balance sheets. In addition, for the first Fannie Mae transaction, we recorded a "guarantee asset" in the other assets line item on our consolidated balance sheets.

The guarantee obligations represent our commitments to assume losses under these arrangements. We amortize the guarantee obligations over the 10-year terms of the arrangements based primarily on changes in the outstanding unpaid principal balance of loans in the reference pools, with a portion of the liabilities treated as a credit reserve that is not amortized into income. In addition, each period we assess the need for a separate loss allowance related to these arrangements, based on our estimate of credit losses inherent in the reference pools of loans.

Income from cash payments received under the first Fannie Mae risk-sharing arrangement and income related to the amortization of the guarantee obligations of all three arrangements are recorded in Other income, net, and market valuation changes of the guarantee asset are recorded in Investment fair value changes, net on our consolidated statements of income.

Our consolidated balance sheets include assets of the special purpose entities ("SPEs") associated with these risk-sharing arrangements (i.e., the "pledged collateral" referred to above) that can only be used to settle obligations of these SPEs and liabilities of these SPEs for which the creditors of these SPEs (the Agencies) do not have recourse to Redwood Trust, Inc. or its affiliates. At December 31, 2018 and December 31, 2017, assets of such SPEs totaled \$47 million and \$48 million, respectively, and liabilities of such SPEs totaled \$17 million and \$19 million, respectively.

See *Note 16* for further discussion on loss contingencies — risk-sharing.

*REO*

REO property acquired through, or in lieu of, foreclosure is initially recorded at fair value, and subsequently reported at the lower of its carrying amount or fair value (less estimated cost to sell). Changes in the fair value of an REO property that has a fair value at or below its carrying amount are recorded in Investment fair value changes, net on our consolidated statements of income.

See *Note 12* for further discussion on other assets.

Short-Term Debt

Short-term debt includes borrowings under master repurchase agreements, loan warehouse facilities, and other forms of borrowings that expire within one year with various counterparties. These borrowings are typically collateralized by cash, loans, or securities, and in some cases may be unsecured. If the value (as determined by the applicable counterparty) of the collateral securing those borrowings decreases, we may be subject to margin calls during the period the borrowings are outstanding. In instances where we do not satisfy the margin calls within the required time frame, the counterparty may retain the collateral and pursue any outstanding debt amount from us. Short-term debt also includes non-recourse short-term borrowings used to finance servicer advance investments we made beginning in the fourth quarter of 2018.

See *Note 13* for further discussion on short-term debt.

Accrued Interest Payable

Accrued interest payable includes interest that is due and payable to third parties. Interest is generally paid within one to three months of recording the payable, based upon our remittance requirements, and is paid semi-annually for our convertible and exchangeable debt. Interest on our FHLB borrowings is paid every 13 weeks. For borrowings where we have elected the fair value option, the associated accrued interest on these liabilities is measured at fair value. For financial liabilities where we have not elected the fair value option, the associated accrued interest carrying values approximate fair values.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

*Asset-Backed Securities Issued*

ABS issued represents asset-backed securities issued through the Legacy Sequoia, Sequoia Choice, Freddie Mac K-Series, and Freddie Mac SLST securitization entities. Assets at these entities are held in the custody of securitization trustees and are not owned by Redwood. These trustees collect principal and interest payments (less servicing and related fees) from the assets and make corresponding principal and interest payments to the ABS investors. In accordance with accounting guidance for CFEs, we account for the ABS issued under our consolidated entities at fair value, with periodic changes in fair value recorded in Investment fair value changes, net on our consolidated statements of income.

See *Note 14* for further discussion on ABS issued.

*Long-Term Debt*

*FHLBC Borrowings*

FHLBC borrowings include amounts borrowed by our FHLB-member subsidiary, also referred to as “advances,” from the Federal Home Loan Bank of Chicago that are secured by eligible collateral, including, but not limited to, residential mortgage loans and residential mortgage-backed securities. FHLBC borrowings are carried at their unpaid principal balance and interest on advances is paid every 13 weeks from when each respective advance is made. If the value (as determined by the FHLBC) of the collateral securing those borrowings decreases, we may be subject to margin calls during the period the borrowings are outstanding. In instances where we do not satisfy the margin calls within the required time frame, the FHLBC may foreclose upon the collateral and pursue any outstanding debt amount from us.

*Convertible Notes*

Convertible notes include unsecured convertible and exchangeable debt that are carried at their unpaid principal balance net of any unamortized deferred issuance costs. Interest on the notes is payable semiannually until such time the notes mature or are converted or exchanged into shares. If converted or exchanged by a holder, the holder of the notes would receive shares of our common stock.

*Trust Preferred Securities and Subordinated Notes*

Trust preferred securities and subordinated notes are carried at their unpaid principal balance net of any unamortized deferred issuance costs. This long-term debt is unsecured and interest is paid quarterly until it is redeemed in whole or matures at a future date.

*Deferred Debt Issuance Costs*

Deferred debt issuance costs are expenses associated with the issuance of long-term debt. These expenses typically include underwriting, rating agency, legal, accounting, and other fees. Deferred debt issuance costs are included in the carrying value of the related long-term debt issued and are amortized as an adjustment to interest expense using the interest method, based upon the actual and estimated repayment schedules of the related long-term debt issued.

See *Note 15* for further discussion on long-term debt.

*Equity*

*Accumulated Other Comprehensive Income (Loss)*

Net unrealized gains and losses on real estate securities available-for-sale and interest rate agreements designated as cash flow hedges are reported as components of Accumulated other comprehensive income on our consolidated statements of changes in stockholders' equity and our consolidated balance sheets. Net unrealized gains and losses on securities and interest rate agreements held by our taxable subsidiaries that are reported in other comprehensive income are adjusted for the effects of taxation and may create deferred tax assets or liabilities.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

*Earnings per Common Share*

Basic earnings per common share ("EPS") is computed by dividing net income allocated to common shareholders by the weighted average common shares outstanding. Net income allocated to common shareholders represents net income less income allocated to participating securities (as described herein). Diluted EPS is computed by dividing income allocated to common shareholders by the weighted average common shares outstanding plus amounts representing the dilutive effect of share-based payment awards. In addition, if the assumed conversion or exchange of convertible or exchangeable debt into common shares is dilutive, diluted EPS is adjusted by adding back the periodic interest expense (net of any tax effects) associated with dilutive convertible or exchangeable debt to net income and adding the shares issued in an assumed conversion or exchange to the diluted weighted average share count.

The two-class method is an earnings allocation formula under which EPS is calculated for common stock and participating securities according to dividends declared and participating rights in undistributed earnings. Under this method, all earnings (distributed and undistributed) are allocated between participating securities and common shares based on their respective rights to receive dividends or dividend equivalents. GAAP defines vested and unvested share-based payment awards containing nonforfeitable rights to dividends or dividend equivalents as participating securities that are included in computing EPS under the two-class method.

See *Note 17* for further discussion on equity.

*Incentive Plans*

In May 2018, our shareholders approved an amendment to the 2014 Redwood Trust, Inc. Incentive Plan ("Incentive Plan") for executive officers, employees, and non-employee directors, which increased the number of shares available under the Incentive Plan. The Incentive Plan provides for the grant of restricted stock, deferred stock, deferred stock units, performance-based awards (including performance stock units), dividend equivalents, stock payments, restricted stock units, and other types of awards to eligible participants. Long-term incentive awards granted under the Incentive Plan generally vest over a three- or four-year period. Awards made under the Incentive Plan to officers and other employees in lieu of the payment in cash of a portion of annual bonuses earned generally vest immediately, but are subject to a three-year mandatory holding period. Deferred stock units and restricted stock have attached dividend equivalent rights, resulting in the payment of dividend equivalents each time we pay a common stock dividend. Non-employee directors are also provided annual awards under the Incentive Plan that generally vest immediately. The cost of the awards is generally amortized over the vesting period on a straight-line basis. Upon adoption of ASU 2016-09 in 2016, we elected to begin accounting for forfeitures on employee equity awards as they occur.

*Employee Stock Purchase Plan*

In 2013, our shareholders approved an amendment to our previously amended 2002 Redwood Trust, Inc. Employee Stock Purchase Plan ("ESPP") to increase the number of shares available under the ESPP. The purpose of the ESPP is to give our employees an opportunity to acquire an equity interest in the Company through the purchase of shares of common stock at a discount. The ESPP allows eligible employees to purchase common stock at 85% of its fair value, subject to certain limits. Fair value as defined under the ESPP is the lesser of the closing market price of the common stock on the first day of the calendar year or the last day of the calendar quarter.

*Executive Deferred Compensation Plan*

In 2018, our Board of Directors approved an amendment to our 2002 Executive Deferred Compensation Plan ("EDCP") to increase the number of shares available to non-employee directors to defer certain cash payments and dividends into DSUs. The EDCP allows eligible employees and directors to defer portions of current salary and certain other forms of compensation. The Company matches some deferrals. Compensation deferred under the EDCP is recorded as a liability on our consolidated balance sheets. The EDCP allows for the investment of deferrals in either an interest crediting account or DSUs.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

*401(k) Plan*

We offer a tax-qualified 401(k) Plan to all employees for retirement savings. Under this Plan, employees are allowed to defer and invest up to 100% of their cash earnings, subject to the maximum 401(k) Plan contribution limit set forth by the Internal Revenue Service. We match some employee contributions to encourage participation and to provide a retirement planning benefit to employees. Plan matching contributions made by the Company for the years ended December 31, 2018, 2017, and 2016 were \$0.6 million, \$0.5 million, and \$0.6 million, respectively. Vesting of the 401(k) Plan matching contributions is based on the employee's tenure at the Company, and over time an employee becomes increasingly vested in matching contributions.

See *Note 18* for further discussion on equity compensation plans.

*Taxes*

We have elected to be taxed as a REIT under the Internal Revenue Code and the corresponding provisions of state law. To qualify as a REIT we must distribute at least 90% of our annual REIT taxable income to shareholders (not including taxable income retained in our taxable subsidiaries) within the time frame set forth in the Internal Revenue Code and also meet certain other requirements related to assets, income, and stock ownership. We assess our tax positions for all open tax years and record tax benefits only if tax positions meet a more-likely-than-not threshold in accordance with GAAP guidance on accounting for uncertain tax positions. We classify interest and penalties on material uncertain tax positions as interest expense and operating expense, respectively, in our consolidated statements of income.

See *Note 22* for further discussion on taxes.

***Recent Accounting Pronouncements***

*Newly Adopted Accounting Standards Updates ("ASUs")*

In May 2017, the FASB issued ASU 2017-09, "Compensation - Stock Compensation (Topic 718)." This new guidance provides guidance about which changes to the terms or conditions of a share-based payment award require an entity to apply modification accounting in Topic 718. This new guidance is effective for fiscal years beginning after December 15, 2017, and should be applied prospectively to an award modified on or after the adoption date. We adopted this guidance, as required, in the first quarter of 2018, which did not have a material impact on our consolidated financial statements.

In November 2016, the FASB issued ASU 2016-18, "Statement of Cash Flows (Topic 230): Restricted Cash." This new guidance amends previous guidance on how to classify and present changes in restricted cash on the statement of cash flows. This new guidance is effective for fiscal years beginning after December 15, 2017. We adopted this guidance, as required, in the first quarter of 2018, which did not have a material impact on our results of operations but impacted the presentation of the statements of cash flows and related footnote disclosures.

In October 2016, the FASB issued ASU 2016-16, "Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory." This new guidance allows an entity to recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs. It also eliminates the exceptions for an intra-entity transfer of assets other than inventory. This new guidance is effective for fiscal years beginning after December 15, 2017. We adopted this guidance, as required, in the first quarter of 2018, which did not have a material impact on our consolidated financial statements.

In August 2016, the FASB issued ASU 2016-15, "Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments." This new guidance provides guidance on how to present and classify certain cash receipts and cash payments in the statement of cash flows. This new guidance is effective for fiscal years beginning after December 15, 2017. We adopted this guidance, as required, in the first quarter of 2018, which did not have a material impact on our consolidated financial statements.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

In January 2016, the FASB issued ASU 2016-01, "Recognition and Measurement of Financial Assets and Financial Liabilities." This new guidance amends accounting related to the classification and measurement of investments in equity securities and the presentation of certain fair value changes for financial liabilities measured at fair value. This new guidance also amends certain disclosure requirements associated with the fair value of financial instruments and it is effective for fiscal years beginning after December 15, 2017. In February 2018, the FASB issued ASU 2018-03, "Technical Corrections and Improvements to Financial Instruments - Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities," which clarified certain aspects of the guidance issued in ASU 2016-01. We adopted this guidance, as required, in the first quarter of 2018. This did not have a material impact on our consolidated financial statements as our investments in debt securities and loans were not subject to the amendments in this ASU. In accordance with this guidance, we amended certain fair value disclosures related to financial instruments that are carried at amortized cost on the consolidated balance sheets.

In May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers." The update modifies the guidance companies use to recognize revenue from contracts with customers for transfers of goods or services and transfers of nonfinancial assets, unless those contracts are within the scope of other standards. The guidance also requires new qualitative and quantitative disclosures, including information about contract balances and performance obligations. In July 2015, the FASB approved a one-year deferral of the effective date. Accordingly, the update is effective for us in the first quarter of 2018 with retrospective application to prior periods presented or as a cumulative effect adjustment in the period of adoption. In March 2016, the FASB issued ASU 2016-08, "Revenue from Contracts with Customers (Topic 606): Principal versus Agent Considerations (Reporting Revenue Gross versus Net)." This new guidance provides additional implementation guidance on how an entity should identify the unit of accounting for the principal versus agent evaluations. In May 2016, the FASB issued ASU 2016-12, "Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients," and in December 2016, the FASB issued ASU 2016-20, "Technical Corrections and Improvements to Topic 606, Revenue from Contracts with Customers." These new ASUs provide more specific guidance on certain aspects of Topic 606. In September 2017, the FASB issued ASU 2017-13, "Revenue Recognition (Topic 605), Revenue from Contracts with Customers (Topic 606), Leases (Topic 840), and Leases (Topic 842): Amendments to SEC Paragraphs Pursuant to the Staff Announcement at the July 20, 2017 EITF Meeting and Rescission of Prior SEC Staff Announcements and Observer Comments (SEC Update)." This new ASU allows certain public business entities to use the nonpublic business entity effective dates for adoption of the new revenue standard. In November 2017, the FASB issued ASU 2017-14, "Income Statement - Reporting Comprehensive Income (Topic 220), Revenue Recognition (Topic 605), and Revenue from Contracts with Customers (Topic 606): Amendments to SEC Paragraphs Pursuant to Staff Accounting Bulletin No. 116 and SEC Release No. 33-10403." This new ASU amends various paragraphs that contain SEC guidance. We adopted this guidance, as required, in the first quarter of 2018. This did not have a material impact on our consolidated financial statements as nearly all of our income is generated from financial instruments, which are explicitly scoped out of these standards.

*Other Recent Accounting Pronouncements*

In August 2018, the FASB issued ASU 2018-13, "Fair Value Measurement (Topic 820): Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement." This new guidance amends previous guidance by removing and modifying certain existing fair value disclosure requirements, while adding other new disclosure requirements. This new guidance is effective for fiscal years beginning after December 15, 2019. Early adoption is permitted and entities may elect to early adopt the removal or modification of disclosures immediately and delay adoption of the new disclosure requirements until their effective date. We plan to adopt this new guidance by the required date and do not anticipate that this update will have a material impact on our consolidated financial statements.

In July 2018, the FASB issued ASU 2018-09, "Codification Improvements." This new guidance is intended to clarify, correct, and make minor improvements to the FASB Accounting Standards Codification. The transition and effective dates are based on the facts and circumstances of each amendment, with some amendments becoming effective upon issuance of this ASU and others becoming effective for annual periods beginning after December 15, 2018. We plan to adopt this new guidance by the required date and do not anticipate that this update will have a material impact on our consolidated financial statements.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

In February 2018, the FASB issued ASU 2018-02, "Income Statement - Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income." This new guidance allows a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the Tax Cuts and Jobs Act of 2017 (the "Tax Act"). This new guidance is effective for fiscal years beginning after December 15, 2018. Early adoption is permitted. We plan to adopt this new guidance by the required date and do not anticipate that this update will have a material impact on our consolidated financial statements.

In August 2017, the FASB issued ASU 2017-12, "Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities." This new guidance amends previous guidance to better align an entity's risk management activities and financial reporting for hedging relationships through changes to both the designation and measurement guidance for qualifying hedging relationships and the presentation of hedge results. This new guidance is effective for fiscal years beginning after December 15, 2018. Early adoption is permitted. Additionally, in October 2018, the FASB issued ASU 2018-16, "Derivatives and Hedging (Topic 815): Inclusion of the Secured Overnight Financing Rate (SOFR) Overnight Index Swap (OIS) Rate as a Benchmark Interest Rate for Hedge Accounting Purposes," which permits the use of the OIS rate based on SOFR as a U.S. benchmark interest rate for hedge accounting purposes under Topic 815. The amendments in this update are required to be adopted concurrently with the amendments in ASU 2017-12. We plan to adopt this new guidance by the required date and we do not anticipate that this update will have a material impact on our consolidated financial statements.

In July 2017, the FASB issued ASU 2017-11, "Earnings Per Share (Topic 260); Distinguishing Liabilities from Equity (Topic 480); Derivatives and Hedging (Topic 815): (Part I) Accounting for Certain Financial Instruments with Down Round Features, (Part II) Replacement of the Indefinite Deferral for Mandatorily Redeemable Financial Instruments of Certain Nonpublic Entities and Certain Mandatorily Redeemable Noncontrolling Interests with a Scope Exception." This new guidance changes the classification analysis of certain equity-linked financial instruments (or embedded conversion options) with down round features. This new guidance is effective for fiscal years beginning after December 15, 2018. Early adoption is permitted. We plan to adopt this new guidance by the required date and do not anticipate that this update will have a material impact on our consolidated financial statements.

In March 2017, the FASB issued ASU 2017-08, "Receivables - Nonrefundable Fees and Other Costs (Subtopic 310-20)." This new guidance shortens the amortization period for certain callable debt securities purchased at a premium by requiring the premium to be amortized to the earliest call date. This new guidance is effective for fiscal years beginning after December 15, 2018. Early adoption is permitted. We plan to adopt this new guidance by the required date and do not anticipate that this update will have a material impact on our consolidated financial statements.

In June 2016, the FASB issued ASU 2016-13, "Financial Instruments - Credit Losses." This new guidance provides a new impairment model that is based on expected losses rather than incurred losses to determine the allowance for credit losses. This new guidance is effective for fiscal years beginning after December 15, 2019. Early adoption is permitted for fiscal years beginning after December 15, 2018. In November 2018, the FASB issued ASU 2018-19, "Codification Improvements to Topic 326, Financial Instruments - Credit Losses," which clarifies the scope of the amendments in ASU 2016-13. We currently have only a small balance of loans receivable that are not carried at fair value and would be subject to this new guidance for allowance for credit losses. Separately, we account for our available-for-sale securities under the other-than-temporary impairment ("OTTI") model for debt securities. This new guidance requires that credit impairments on our available-for-sale securities be recorded in earnings using an allowance for credit losses, with the allowance limited to the amount by which the security's fair value is less than its amortized cost basis. Subsequent reversals in credit loss estimates are recognized in income. We plan to adopt this new guidance by the required date and continue to evaluate the impact that this update will have on our consolidated financial statements.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

In February 2016, the FASB issued ASU 2016-02, "Leases." This new guidance requires lessees to recognize most leases on their balance sheet as a right-of-use asset and a lease liability. This new guidance retains a dual lease accounting model, which requires leases to be classified as either operating or capital leases for lessees, for purposes of income statement recognition. This new guidance is effective for fiscal years beginning after December 15, 2018. Early adoption is permitted. In July 2018, the FASB issued ASU 2018-10, "Codification Improvements to Topic 842, Leases," which provides more specific guidance on certain aspects of Topic 842. Additionally, in July 2018, the FASB issued ASU 2018-11, "Leases (Topic 842): Targeted Improvements." This new ASU introduces an additional transition method which allows entities to apply the new standard at the adoption date and recognize a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. As discussed in *Note 16*, our only material leases are those related to our leased office space, for which future payments under these leases totaled \$16 million at December 31, 2018. Upon adoption of this standard in the first quarter of 2019, we will record a right-of-use asset and lease liability equal to the present value of these future lease payments discounted at our incremental borrowing rate. Based on our initial evaluation of this new guidance, and taking into consideration our current in-place leases, we do not expect that its adoption will have a material impact on our consolidated financial statements.

**Balance Sheet Netting**

Certain of our derivatives and short-term debt are subject to master netting arrangements or similar agreements. Under GAAP, in certain circumstances we may elect to present certain financial assets, liabilities and related collateral subject to master netting arrangements in a net position on our consolidated balance sheets. However, we do not report any of these financial assets or liabilities on a net basis, and instead present them on a gross basis on our consolidated balance sheets.

The table below presents financial assets and liabilities that are subject to master netting arrangements or similar agreements categorized by financial instrument, together with corresponding financial instruments and corresponding collateral received or pledged at December 31, 2018 and December 31, 2017.

**Table 3.1 – Offsetting of Financial Assets, Liabilities, and Collateral**

December 31, 2018 (In Thousands)	Gross Amounts of Recognized Assets (Liabilities)	Gross Amounts Offset in Consolidated Balance Sheet	Net Amounts of Assets (Liabilities) Presented in Consolidated Balance Sheet	Gross Amounts Not Offset in Consolidated Balance Sheet <sup>(1)</sup>		
				Financial Instruments	Cash Collateral (Received) Pledged	Net Amount
Assets <sup>(2)</sup>						
Interest rate agreements	\$ 28,211	\$ —	\$ 28,211	\$ (28,211)	\$ —	\$ —
TBAs	4,665	—	4,665	(3,391)	(835)	439
<b>Total Assets</b>	<u>\$ 32,876</u>	<u>\$ —</u>	<u>\$ 32,876</u>	<u>\$ (31,602)</u>	<u>\$ (835)</u>	<u>\$ 439</u>
Liabilities <sup>(2)</sup>						
Interest rate agreements	\$ (70,908)	\$ —	\$ (70,908)	\$ 28,211	\$ 42,697	\$ —
TBAs	(13,215)	—	(13,215)	3,391	5,620	(4,204)
Loan warehouse debt	(860,650)	—	(860,650)	860,650	—	—
Security repurchase agreements	(988,890)	—	(988,890)	988,890	—	—
<b>Total Liabilities</b>	<u>\$ (1,933,663)</u>	<u>\$ —</u>	<u>\$ (1,933,663)</u>	<u>\$ 1,881,142</u>	<u>\$ 48,317</u>	<u>\$ (4,204)</u>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 3. Summary of Significant Accounting Policies - (continued)**

December 31, 2017 (In Thousands)	Gross Amounts of Recognized Assets (Liabilities)	Gross Amounts Offset in Consolidated Balance Sheet	Net Amounts of Assets (Liabilities) Presented in Consolidated Balance Sheet	Gross Amounts Not Offset in Consolidated Balance Sheet <sup>(1)</sup>		
				Financial Instruments	Cash Collateral (Received) Pledged	Net Amount
Assets <sup>(2)</sup>						
Interest rate agreements	\$ 10,164	\$ —	\$ 10,164	\$ (6,196)	\$ (42)	\$ 3,926
TBAs	133	—	133	(133)	—	—
Futures	1	—	1	—	—	1
<b>Total Assets</b>	<b>\$ 10,298</b>	<b>\$ —</b>	<b>\$ 10,298</b>	<b>\$ (6,329)</b>	<b>\$ (42)</b>	<b>\$ 3,927</b>
Liabilities <sup>(2)</sup>						
Interest rate agreements	\$ (55,567)	\$ —	\$ (55,567)	\$ 6,196	\$ 49,371	\$ —
TBAs	(3,808)	—	(3,808)	133	1,376	(2,299)
Loan warehouse debt	(1,039,666)	—	(1,039,666)	1,039,666	—	—
Security repurchase agreements	(648,746)	—	(648,746)	648,746	—	—
<b>Total Liabilities</b>	<b>\$ (1,747,787)</b>	<b>\$ —</b>	<b>\$ (1,747,787)</b>	<b>\$ 1,694,741</b>	<b>\$ 50,747</b>	<b>\$ (2,299)</b>

(1) Amounts presented in these columns are limited in total to the net amount of assets or liabilities presented in the prior column by instrument. In certain cases, there is excess cash collateral or financial assets we have pledged to a counterparty (which may, in certain circumstances, be a clearinghouse) that exceed the financial liabilities subject to a master netting arrangement or similar agreement. Additionally, in certain cases, counterparties may have pledged excess cash collateral to us that exceeds our corresponding financial assets. In each case, any of these excess amounts are excluded from the table although they are separately reported in our consolidated balance sheets as assets or liabilities, respectively.

(2) Interest rate agreements, TBAs, and futures are components of derivatives instruments on our consolidated balance sheets. Loan warehouse debt, which is secured by residential mortgage loans, and security repurchase agreements are components of Short-term debt on our consolidated balance sheets.

For each category of financial instrument set forth in the table above, the assets and liabilities resulting from individual transactions within that category between us and a counterparty are subject to a master netting arrangement or similar agreement with that counterparty that provides for individual transactions to be aggregated and treated as a single transaction. For certain categories of these instruments, some of our transactions are cleared and settled through one or more clearinghouses that are substituted as our counterparty. References herein to master netting arrangements or similar agreements include the arrangements and agreements governing the clearing and settlement of these transactions through the clearinghouses. In the event of the termination and close-out of any of those transactions, the corresponding master netting agreement or similar agreement provides for settlement on a net basis. Any such settlement would include the proceeds of the liquidation of any corresponding collateral, subject to certain limitations on termination, settlement, and liquidation of collateral that may apply in the event of the bankruptcy or insolvency of a party. Such limitations should not inhibit the eventual practical realization of the principal benefits of those transactions or the corresponding master netting arrangement or similar agreement and any corresponding collateral.

**Note 4. Principles of Consolidation**

GAAP requires us to consider whether securitizations we sponsor and other transfers of financial assets should be treated as sales or financings, as well as whether any VIEs that we hold variable interests in – for example, certain legal entities often used in securitization and other structured finance transactions – should be included in our consolidated financial statements. The GAAP principles we apply require us to reassess our requirement to consolidate VIEs each quarter and therefore our determination may change based upon new facts and circumstances pertaining to each VIE. This could result in a material impact to our consolidated financial statements during subsequent reporting periods.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 4. Principles of Consolidation - (continued)**

***Analysis of Consolidated VIEs***

As of December 31, 2018, we consolidated our Legacy Sequoia and Sequoia Choice securitization entities that we determined were VIEs and for which we determined we were the primary beneficiary. Additionally, beginning in the second half of 2018, we consolidated certain third-party Freddie Mac K-Series securitization entities and the Freddie Mac SLST securitization entity that we determined were VIEs and for which we determined we were the primary beneficiary. Each of these entities is independent of Redwood and of each other and the assets and liabilities of these entities are not owned by and are not legal obligations of ours. Our exposure to these entities is primarily through the financial interests we have retained, although for the consolidated Sequoia entities we are exposed to certain financial risks associated with our role as a sponsor, servicing administrator, or depositor of these entities or as a result of our having sold assets directly or indirectly to these entities. At December 31, 2018, the estimated fair value of our investments in the consolidated Legacy Sequoia, Sequoia Choice, Freddie Mac SLST, and Freddie Mac K-Series entities was \$12 million, \$196 million, \$230 million and \$126 million, respectively.

Beginning in the fourth quarter of 2018, we consolidated two partnerships formed to invest in servicing-related assets that we determined were VIEs and for which we determined we were the primary beneficiary. At December 31, 2018, we held an 80% ownership interest in, and were the managing member of, each entity. See *Note 10* for a further description of these entities and the investments they hold and *Note 12* for additional information on the minority partner's interest. Additionally, at December 31, 2018, we consolidated an entity that was formed to finance servicing advances, that we determined was a VIE and for which we, through our control of one of the aforementioned partnerships, were the primary beneficiary. The servicer advance financing consists of non-recourse short-term securitization debt, secured by servicing advances. We consolidate the securitization entity, but the securitization entity is independent of Redwood and the assets and liabilities are not owned by and are not legal obligations of Redwood. See *Note 13* for additional information on the servicer advance financing. At December 31, 2018, the estimated fair value of our investment in the Servicing Investment entities was \$57 million.

The following table presents a summary of the assets and liabilities of these VIEs.

**Table 4.1 – Assets and Liabilities of Consolidated VIEs**

<b>December 31, 2018</b>						
<b>(Dollars in Thousands)</b>	<b>Legacy Sequoia</b>	<b>Sequoia Choice</b>	<b>Freddie Mac SLST</b>	<b>Freddie Mac K-Series</b>	<b>Servicing Investment</b>	<b>Total Consolidated VIEs</b>
Residential loans, held-for-investment	\$ 519,958	\$ 2,079,382	\$ 1,222,669	\$ —	\$ —	\$ 3,822,009
Multifamily loans, held-for-investment	—	—	—	2,144,598	—	2,144,598
Other investments	—	—	—	—	312,688	312,688
Restricted cash	146	1,022	—	—	25,363	26,531
Accrued interest receivable	822	8,988	3,926	6,595	1,091	21,422
REO	3,943	—	—	—	—	3,943
<b>Total Assets</b>	<b>\$ 524,869</b>	<b>\$ 2,089,392</b>	<b>\$ 1,226,595</b>	<b>\$ 2,151,193</b>	<b>\$ 339,142</b>	<b>\$ 6,331,191</b>
Short-term debt	\$ —	\$ —	\$ —	\$ —	\$ 262,740	\$ 262,740
Accrued interest payable	571	7,180	2,907	6,239	483	17,380
Accrued expenses and other liabilities	—	1,022	—	—	18,592	19,614
Asset-backed securities issued	512,240	1,885,010	993,748	2,019,075	—	5,410,073
<b>Total Liabilities</b>	<b>\$ 512,811</b>	<b>\$ 1,893,212</b>	<b>\$ 996,655</b>	<b>\$ 2,025,314</b>	<b>\$ 281,815</b>	<b>\$ 5,709,807</b>
<b>Number of VIEs</b>	<b>20</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>33</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 4. Principles of Consolidation - (continued)**

<b>December 31, 2017</b>						
<b>(Dollars in Thousands)</b>	<b>Legacy Sequoia</b>	<b>Sequoia Choice</b>	<b>Freddie Mac SLST</b>	<b>Freddie Mac K-Series</b>	<b>Servicing Investment</b>	<b>Total Consolidated VIEs</b>
Residential loans, held-for-investment	\$ 632,817	\$ 620,062	\$ —	\$ —	\$ —	\$ 1,252,879
Restricted cash	147	4	—	—	—	151
Accrued interest receivable	867	2,524	—	—	—	3,391
REO	3,353	—	—	—	—	3,353
<b>Total Assets</b>	<b>\$ 637,184</b>	<b>\$ 622,590</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,259,774</b>
Accrued interest payable	\$ 537	\$ 2,031	\$ —	\$ —	\$ —	\$ 2,568
Accrued expenses and other liabilities	—	4	—	—	—	4
Asset-backed securities issued	622,445	542,140	—	—	—	1,164,585
<b>Total Liabilities</b>	<b>\$ 622,982</b>	<b>\$ 544,175</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,167,157</b>
<b>Number of VIEs</b>	<b>20</b>	<b>2</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>22</b>

We consolidate the assets and liabilities of certain Sequoia securitization entities, as we did not meet the GAAP sale criteria at the time we transferred financial assets to these entities. Our involvement in consolidated Sequoia entities continues in the following ways: (i) we continue to hold subordinate investments in each entity, and for certain entities, more senior investments; (ii) we maintain certain discretionary rights associated with our sponsorship of, or our subordinate investments in, each entity; and (iii) we continue to hold a right to call the assets of certain entities (once they have been paid down below a specified threshold) at a price equal to, or in excess of, the current outstanding principal amount of the entity's asset-backed securities issued. These factors have resulted in our continuing to consolidate the assets and liabilities of these Sequoia entities in accordance with GAAP.

Beginning in the third quarter of 2018, we consolidated the assets and liabilities of certain Freddie Mac K-Series securitization trusts resulting from our investment in subordinate securities issued by these trusts. Additionally, in the fourth quarter of 2018, we consolidated the assets and liabilities of a Freddie Mac SLST securitization trust resulting from our investment in subordinate securities issued by this trust. During the fourth quarter of 2018, we consolidated the assets and liabilities of Servicing Investment entities from our investment in servicer advance investments and excess MSRs. In each case, we maintain certain discretionary rights associated with the ownership of these investments that we determined reflected a controlling financial interest, as we have both the power to direct the activities that most significantly impact the economic performance of the VIEs and the right to receive benefits of and the obligation to absorb losses from the VIEs that could potentially be significant to the VIEs.

***Analysis of Unconsolidated VIEs with Continuing Involvement***

Since 2012, we have transferred residential loans to 44 Sequoia securitization entities sponsored by us and accounted for these transfers as sales for financial reporting purposes, in accordance with ASC 860. We also determined we were not the primary beneficiary of these VIEs as we lacked the power to direct the activities that will have the most significant economic impact on the entities. For certain of these transfers to securitization entities, for the transferred loans where we held the servicing rights prior to the transfer and continued to hold the servicing rights following the transfer, we recorded MSRs on our consolidated balance sheets, and classified those MSRs as Level 3 assets. We also retained senior and subordinate securities in these securitizations that we classified as Level 3 assets. Our continuing involvement in these securitizations is limited to customary servicing obligations associated with retaining servicing rights (which we retain a third-party sub-servicer to perform) and the receipt of interest income associated with the securities we retained.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 4. Principles of Consolidation - (continued)**

During the years ended December 31, 2018 and 2017, we transferred residential loans to eight and seven Sequoia securitization entities sponsored by us, respectively, and accounted for these transfers as sales for financial reporting purposes. The following table presents information related to securitization transactions that occurred during the years ended December 31, 2018 and 2017.

**Table 4.2 – Securitization Activity Related to Unconsolidated VIEs Sponsored by Redwood**

(In Thousands)	Years Ended December 31,	
	2018	2017
Principal balance of loans transferred	\$ 3,188,358	\$ 2,573,789
Trading securities retained, at fair value	52,859	66,321
AFS securities retained, at fair value	7,739	13,341
MSRs recognized	—	7,123

The following table summarizes the cash flows during the years ended December 31, 2018 and 2017 between us and the unconsolidated VIEs sponsored by us and accounted for as sales since 2012.

**Table 4.3 – Cash Flows Related to Unconsolidated VIEs Sponsored by Redwood**

(In Thousands)	Years Ended December 31,	
	2018	2017
Proceeds from new transfers	\$ 3,175,900	\$ 2,563,499
MSR fees received	13,417	14,302
Funding of compensating interest, net	(122)	(151)
Cash flows received on retained securities	28,614	27,156

The following table presents the key weighted average assumptions used to measure MSRs and securities retained at the date of securitization for securitizations completed during 2018 and 2017.

**Table 4.4 – Assumptions Related to Assets Retained from Unconsolidated VIEs Sponsored by Redwood**

At Date of Securitization	Year Ended December 31, 2018			Year Ended December 31, 2017		
	MSRs	Senior IO Securities	Subordinate Securities	MSRs	Senior IO Securities	Subordinate Securities
Prepayment rates	N/A	9%	10%	9%	10%	10%
Discount rates	N/A	14%	5%	11%	14%	5%
Credit loss assumptions	N/A	0.20%	0.20%	N/A	0.25%	0.25%

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 4. Principles of Consolidation - (continued)**

The following table presents additional information at December 31, 2018 and December 31, 2017, related to unconsolidated VIEs sponsored by Redwood and accounted for as sales since 2012.

**Table 4.5 – Unconsolidated VIEs Sponsored by Redwood**

(In Thousands)	December 31, 2018	December 31, 2017
On-balance sheet assets, at fair value:		
Interest-only, senior and subordinate securities, classified as trading	\$ 129,111	\$ 101,426
Subordinate securities, classified as AFS	162,314	219,255
Mortgage servicing rights	58,572	60,980
Maximum loss exposure <sup>(1)</sup>	<u>\$ 349,997</u>	<u>\$ 381,661</u>
Assets transferred:		
Principal balance of loans outstanding	\$ 10,580,216	\$ 8,364,148
Principal balance of loans 30+ days delinquent	21,805	27,926

(1) Maximum loss exposure from our involvement with unconsolidated VIEs pertains to the carrying value of our securities and MSRs retained from these VIEs and represents estimated losses that would be incurred under severe, hypothetical circumstances, such as if the value of our interests and any associated collateral declines to zero. This does not include, for example, any potential exposure to representation and warranty claims associated with our initial transfer of loans into a securitization.

The following table presents key economic assumptions for assets retained from unconsolidated VIEs and the sensitivity of their fair values to immediate adverse changes in those assumptions at December 31, 2018 and December 31, 2017.

**Table 4.6 – Key Assumptions and Sensitivity Analysis for Assets Retained from Unconsolidated VIEs Sponsored by Redwood**

December 31, 2018 (Dollars in Thousands)	MSRs	Senior Securities <sup>(1)</sup>	Subordinate Securities
Fair value at December 31, 2018	\$ 58,572	\$ 61,178	\$ 230,247
Expected life (in years) <sup>(2)</sup>	8	7	15
Prepayment speed assumption (annual CPR) <sup>(2)</sup>	7%	10%	9%
Decrease in fair value from:			
10% adverse change	\$ 1,668	\$ 2,151	\$ 201
25% adverse change	4,027	5,127	1,372
Discount rate assumption <sup>(2)</sup>	11%	12%	6%
Decrease in fair value from:			
100 basis point increase	\$ 2,323	\$ 2,190	\$ 21,982
200 basis point increase	4,493	4,226	40,641
Credit loss assumption <sup>(2)</sup>	N/A	0.20%	0.20%
Decrease in fair value from:			
10% higher losses	N/A	\$ —	\$ 1,387
25% higher losses	N/A	—	3,471

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 4. Principles of Consolidation - (continued)**

<b>December 31, 2017</b> <b>(Dollars in Thousands)</b>	<b>MSRs</b>	<b>Senior Securities <sup>(1)</sup></b>	<b>Subordinate Securities</b>
Fair value at December 31, 2017	\$ 60,980	\$ 33,773	\$ 286,908
Expected life (in years) <sup>(2)</sup>	8	6	13
Prepayment speed assumption (annual CPR) <sup>(2)</sup>	9%	10%	11%
Decrease in fair value from:			
10% adverse change	\$ 2,022	\$ 1,371	\$ 611
25% adverse change	4,839	3,289	1,506
Discount rate assumption <sup>(2)</sup>	11%	11%	5%
Decrease in fair value from:			
100 basis point increase	\$ 2,386	\$ 1,158	\$ 25,827
200 basis point increase	4,597	2,265	47,885
Credit loss assumption <sup>(2)</sup>	N/A	0.25%	0.25%
Decrease in fair value from:			
10% higher losses	N/A	\$ —	\$ 1,551
25% higher losses	N/A	—	3,873

(1) Senior securities included \$61 million and \$34 million of interest-only securities at December 31, 2018 and December 31, 2017, respectively.

(2) Expected life, prepayment speed assumption, discount rate assumption, and credit loss assumption presented in the tables above represent weighted averages.

**Analysis of Unconsolidated Third-Party VIEs**

Third-party VIEs are securitization entities in which we maintain an economic interest, but do not sponsor. Our economic interest may include several securities and other investments from the same third-party VIE, and in those cases, the analysis is performed in consideration of all of our interests. The following table presents a summary of our interests in third-party VIEs at December 31, 2018, grouped by asset type.

**Table 4.7 – Third-Party Sponsored VIE Summary**

<b>(Dollars in Thousands)</b>	<b>December 31, 2018</b>
<b>Mortgage-Backed Securities</b>	
Senior	\$ 185,107
Mezzanine	547,249
Subordinate	428,713
<b>Total Mortgage-Backed Securities</b>	<b>1,161,069</b>
Excess MSR	15,092
<b>Total Investments in Third-Party Sponsored VIEs</b>	<b>\$ 1,176,161</b>

We determined that we are not the primary beneficiary of these third-party VIEs, as we do not have the required power to direct the activities that most significantly impact the economic performance of these entities. Specifically, we do not service or manage these entities or otherwise solely hold decision making powers that are significant. As a result of this assessment, we do not consolidate any of the underlying assets and liabilities of these third-party VIEs – we only account for our specific interests in them.

Our assessments of whether we are required to consolidate a VIE may change in subsequent reporting periods based upon changing facts and circumstances pertaining to each VIE. Any related accounting changes could result in a material impact to our financial statements.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments**

For financial reporting purposes, we follow a fair value hierarchy established under GAAP that is used to determine the fair value of financial instruments. This hierarchy prioritizes relevant market inputs in order to determine an “exit price” at the measurement date, or the price at which an asset could be sold or a liability could be transferred in an orderly process that is not a forced liquidation or distressed sale. Level 1 inputs are observable inputs that reflect quoted prices for identical assets or liabilities in active markets. Level 2 inputs are observable inputs other than quoted prices for an asset or liability that are obtained through corroboration with observable market data. Level 3 inputs are unobservable inputs (e.g., our own data or assumptions) that are used when there is little, if any, relevant market activity for the asset or liability required to be measured at fair value.

In certain cases, inputs used to measure fair value fall into different levels of the fair value hierarchy. In such cases, the level at which the fair value measurement falls is determined based on the lowest level input that is significant to the fair value measurement. Our assessment of the significance of a particular input requires judgment and considers factors specific to the asset or liability being measured.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

The following table presents the carrying values and estimated fair values of assets and liabilities that are required to be recorded or disclosed at fair value at December 31, 2018 and December 31, 2017.

**Table 5.1 – Carrying Values and Fair Values of Assets and Liabilities**

(In Thousands)	December 31, 2018		December 31, 2017	
	Carrying Value	Fair Value	Carrying Value	Fair Value
<b>Assets</b>				
Residential loans, held-for-sale				
At fair value	\$ 1,048,690	\$ 1,048,690	\$ 1,427,052	\$ 1,427,052
At lower of cost or fair value	111	131	893	993
Residential loans, held-for-investment	6,205,941	6,205,941	3,687,265	3,687,265
Business purpose residential loans	141,258	141,258	—	—
Multifamily loans	2,144,598	2,144,598	—	—
Trading securities	1,118,612	1,118,612	968,844	968,844
Available-for-sale securities	333,882	333,882	507,666	507,666
Servicer advance investments <sup>(1)</sup>	300,468	300,468	—	—
MSRs <sup>(1)</sup>	60,281	60,281	63,598	63,598
Participation in loan warehouse facility <sup>(1)</sup>	39,703	39,703	—	—
Excess MSRs <sup>(1)</sup>	27,312	27,312	—	—
Cash and cash equivalents	175,764	175,764	144,663	144,663
Restricted cash	29,313	29,313	2,144	2,144
Accrued interest receivable	47,105	47,105	27,013	27,013
Derivative assets	35,789	35,789	15,718	15,718
REO <sup>(2)</sup>	3,943	4,396	3,354	3,806
Margin receivable <sup>(2)</sup>	100,773	100,773	85,044	85,044
FHLBC stock <sup>(2)</sup>	43,393	43,393	43,393	43,393
Guarantee asset <sup>(2)</sup>	2,618	2,618	2,869	2,869
Pledged collateral <sup>(2)</sup>	42,433	42,433	42,615	42,615
<b>Liabilities</b>				
Short-term debt facilities	\$ 1,937,920	\$ 1,937,920	\$ 1,688,412	\$ 1,688,412
Short-term debt - servicer advance financing	262,740	262,740	—	—
Accrued interest payable	42,528	42,528	18,435	18,435
Margin payable <sup>(3)</sup>	835	835	390	390
Guarantee obligation <sup>(3)</sup>	16,711	16,774	19,487	18,878
Derivative liabilities	84,855	84,855	63,081	63,081
ABS issued at fair value	5,410,073	5,410,073	1,164,585	1,164,585
FHLBC long-term borrowings	1,999,999	1,999,999	1,999,999	1,999,999
Convertible notes, net	633,196	618,271	686,759	692,369
Trust preferred securities and subordinated notes, net	138,582	102,533	138,535	103,230

(1) These investments are included in Other investments on our consolidated balance sheets.

(2) These assets are included in Other assets on our consolidated balance sheets.

(3) These liabilities are included in Accrued expenses and other liabilities on our consolidated balance sheets.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

During the years ended December 31, 2018 and 2017, we elected the fair value option for \$109 million and \$47 million of residential senior securities, \$545 million and \$594 million of subordinate securities, and \$8.38 billion and \$5.64 billion of residential loans (principal balance). Additionally, during the year ended December 31, 2018, we elected the fair value option for \$168 million of business purpose residential loans (principal balance), \$2.13 billion of multifamily loans (principal balance), \$396 million of servicer advance investments, and \$25 million of excess MSR's. We anticipate electing the fair value option for all future purchases of residential loans that we intend to sell to third parties or transfer to securitizations, as well as for business purpose residential loans, and for certain securities we purchase, including IO securities and fixed-rate securities rated investment grade or higher.

The following table presents the assets and liabilities that are reported at fair value on our consolidated balance sheets on a recurring basis as of December 31, 2018 and December 31, 2017, as well as the fair value hierarchy of the valuation inputs used to measure fair value.

**Table 5.2 – Assets and Liabilities Measured at Fair Value on a Recurring Basis**

December 31, 2018 (In Thousands)	Carrying Value	Fair Value Measurements Using			
		Level 1		Level 2	Level 3
Assets					
Residential loans	\$ 7,254,631	\$ —	\$ —	\$ 7,254,631	
Business purpose residential loans	141,258	—	—	141,258	
Multifamily loans	2,144,598	—	—	2,144,598	
Trading securities	1,118,612	—	—	1,118,612	
Available-for-sale securities	333,882	—	—	333,882	
Servicer advance investments	300,468	—	—	300,468	
MSRs	60,281	—	—	60,281	
Excess MSRs	27,312	—	—	27,312	
Derivative assets	35,789	4,665	28,211	2,913	
Pledged collateral	42,433	42,433	—	—	
FHLBC stock	43,393	—	43,393	—	
Guarantee asset	2,618	—	—	2,618	
Liabilities					
Derivative liabilities	\$ 84,855	\$ 13,215	\$ 70,908	\$ 732	
ABS issued	5,410,073	—	—	5,410,073	

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

December 31, 2017 (In Thousands)	Carrying Value	Fair Value Measurements Using			
		Level 1	Level 2	Level 3	
Assets					
Residential loans	\$ 5,114,317	\$ —	\$ —	\$ 5,114,317	
Trading securities	968,844	—	—	968,844	
Available-for-sale securities	507,666	—	—	507,666	
Derivative assets	15,718	134	10,164	5,420	
MSRs	63,598	—	—	63,598	
Pledged collateral	42,615	42,615	—	—	
FHLBC stock	43,393	—	43,393	—	
Guarantee asset	2,869	—	—	2,869	
Liabilities					
Derivative liabilities	\$ 63,081	\$ 3,808	\$ 55,567	\$ 3,706	
ABS issued	1,164,585	—	—	1,164,585	

The following table presents additional information about Level 3 assets and liabilities measured at fair value on a recurring basis for the years ended December 31, 2018 and December 31, 2017.

**Table 5.3 – Changes in Level 3 Assets and Liabilities Measured at Fair Value on a Recurring Basis**

<b>(In Thousands)</b>	<b>Assets</b>								
	<b>Residential Loans</b>	<b>Business Purpose Residential Loans</b>	<b>Multifamily Loans</b>	<b>Trading Securities</b>	<b>AFS Securities</b>	<b>Servicer Advance Investments</b>	<b>MSRs</b>	<b>Excess MSRs</b>	<b>Guarantee Asset</b>
Beginning balance - December 31, 2017	\$ 5,114,317	\$ —	\$ —	\$ 968,844	\$ 507,666	\$ —	\$ 63,598	\$ —	\$ 2,869
Acquisitions	8,338,724	167,777	2,099,916	653,739	7,739	395,813	328	25,489	—
Sales	(5,425,168)	—	—	(438,304)	(143,644)	—	(1,077)	—	—
Principal paydowns	(814,122)	(27,382)	(1,873)	(40,050)	(44,446)	(94,644)	—	—	—
Gains (losses) in net income, net	44,627	863	46,555	(8,436)	41,051	(701)	(2,568)	1,823	(251)
Unrealized losses in OCI, net	—	—	—	—	(34,484)	—	—	—	—
Other settlements, net (2)	(3,747)	—	—	(17,181)	—	—	—	—	—
<b>Ending balance - December 31, 2018</b>	<b>\$ 7,254,631</b>	<b>\$ 141,258</b>	<b>\$ 2,144,598</b>	<b>\$ 1,118,612</b>	<b>\$ 333,882</b>	<b>\$ 300,468</b>	<b>\$ 60,281</b>	<b>\$ 27,312</b>	<b>\$ 2,618</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

*Table 5.3 – Changes in Level 3 Assets and Liabilities Measured at Fair Value on a Recurring Basis (continued)*

(In Thousands)	Derivatives <sup>(1)</sup>	Liabilities
		ABS Issued
Beginning balance - December 31, 2017	\$ 1,714	\$ 1,164,585
Acquisitions	—	4,613,168
Principal paydowns	—	(459,173)
Gains (losses) in net income, net	(1,214)	91,493
Other settlements, net <sup>(2)</sup>	1,681	—
<b>Ending balance - December 31, 2018</b>	<b>\$ 2,181</b>	<b>\$ 5,410,073</b>

(In Thousands)	Assets					Derivatives <sup>(1)</sup>	Liabilities
	Residential Loans	Trading Securities	AFS Securities	MSRs	Guarantee Asset		ABS Issued
Beginning balance - December 31, 2016	\$ 3,886,845	\$ 445,687	\$ 572,752	\$ 118,526	\$ 4,092	\$ (486)	\$ 773,462
Acquisitions	5,741,427	640,760	39,700	8,026	—	—	567,099
Sales	(3,982,683)	(137,886)	(90,440)	(52,788)	—	—	—
Principal paydowns	(573,168)	(19,224)	(58,554)	—	—	—	(205,163)
Gains (losses) in net income, net	46,119	39,507	31,892	(10,166)	(1,223)	37,220	29,187
Unrealized gains in OCI, net	—	—	12,316	—	—	—	—
Other settlements, net <sup>(2)</sup>	(4,223)	—	—	—	—	(35,020)	—
<b>Ending balance - December 31, 2017</b>	<b>\$ 5,114,317</b>	<b>\$ 968,844</b>	<b>\$ 507,666</b>	<b>\$ 63,598</b>	<b>\$ 2,869</b>	<b>\$ 1,714</b>	<b>\$ 1,164,585</b>

(1) For the purpose of this presentation, derivative assets and liabilities, which consist of loan purchase and forward sale commitments, are presented on a net basis.

(2) Other settlements, net for residential loans represents the transfer of loans to REO, and for derivatives, the settlement of forward sale commitments and the transfer of the fair value of loan purchase commitments at the time loans are acquired to the basis of residential loans. Other settlements, net for our trading securities relates to the consolidation of the Freddie Mac K-Series entities during the second half of 2018.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

The following table presents the portion of gains or losses included in our consolidated statements of income that were attributable to Level 3 assets and liabilities recorded at fair value on a recurring basis and held at December 31, 2018, 2017, and 2016. Gains or losses incurred on assets or liabilities sold, matured, called, or fully written down during the years ended December 31, 2018, 2017, and 2016 are not included in this presentation.

*Table 5.4 – Portion of Net Gains (Losses) Attributable to Level 3 Assets and Liabilities Still Held at December 31, 2018, 2017, and 2016 Included in Net Income*

(In Thousands)	Included in Net Income		
	Years Ended December 31,		
	2018	2017	2016
<b>Assets</b>			
Residential loans at Redwood	\$ (17,757)	\$ 523	\$ (17,370)
Residential loans at consolidated Sequoia entities	24,799	17,727	(14,391)
Residential loans at consolidated Freddie Mac SLST entity	21,295	—	—
Business purpose residential loans	445	—	—
Multifamily loans at consolidated Freddie Mac K-Series entities	46,555	—	—
Trading securities	(12,256)	28,612	7,184
Available-for-sale securities	(89)	(1,011)	(368)
Servicer advance investments	(702)	—	—
MSRs	1,942	1,277	42,964
Excess MSRs	1,824	—	—
Loan purchase commitments	2,913	3,243	—
Loan forward sale commitments	—	2,177	—
Other assets - Guarantee asset	(251)	(1,223)	(1,605)
<b>Liabilities</b>			
Loan purchase commitments	\$ (732)	\$ (3,706)	\$ (486)
ABS issued	(71,468)	(29,187)	8,275

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

The following table presents information on assets recorded at fair value on a non-recurring basis at December 31, 2018 and December 31, 2017. This table does not include the carrying value and gains or losses associated with the asset types below that were not recorded at fair value on our consolidated balance sheets at December 31, 2018 and December 31, 2017.

*Table 5.5 – Assets and Liabilities Measured at Fair Value on a Non-Recurring Basis*

December 31, 2018 (In Thousands)	Carrying Value	Fair Value Measurements Using			Gain (Loss) for Year Ended December 31, 2018
		Level 1	Level 2	Level 3	
Assets					
REO	\$ 2,225	\$ —	\$ —	\$ 2,225	\$ (131 )
December 31, 2017 (In Thousands)	Carrying Value	Fair Value Measurements Using			Gain (Loss) for Year Ended December 31, 2017
		Level 1	Level 2	Level 3	
Assets					
Residential loans, at lower of cost or fair value	\$ 854	\$ —	\$ —	\$ 854	\$ 22
REO	2,034	—	—	2,034	(393 )

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

The following table presents the net market valuation gains and losses recorded in each line item of our consolidated statements of income for the years ended December 31, 2018, 2017, and 2016.

**Table 5.6 – Market Valuation Gains and Losses, Net**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Mortgage Banking Activities, Net</b>			
Residential loans held-for-sale, at fair value	\$ 23,144	\$ 31,493	\$ 5,786
Single-family rental loans held-for-sale, at fair value	453	—	—
Residential loan purchase and forward sale commitments	(1,336)	37,880	25,613
Commercial loans, at fair value	—	—	433
Sequoia securities	—	—	1,455
Risk management derivatives, net	34,739	(17,529)	3,158
<b>Total mortgage banking activities, net<sup>(1)</sup></b>	<b>\$ 57,000</b>	<b>\$ 51,844</b>	<b>\$ 36,445</b>
<b>Investment Fair Value Changes, Net</b>			
Residential loans held-for-investment at Redwood	\$ (29,573)	\$ (5,765)	\$ (23,102)
Residential bridge loans held-for-investment	(29)	—	—
Trading securities	(8,055)	39,526	9,666
Commercial loans held-for-sale	—	300	(307)
Servicer advance investments	(701)	—	—
Excess MSR	1,823	—	—
Net investments in Legacy Sequoia entities <sup>(2)</sup>	(1,016)	(8,027)	(4,200)
Net investments in Sequoia Choice entities <sup>(2)</sup>	443	(323)	—
Net investment in Freddie Mac SLST entity <sup>(2)</sup>	1,271	—	—
Net investments in Freddie Mac K-Series entities <sup>(2)</sup>	931	—	—
Risk-sharing investments	(434)	(1,484)	(1,151)
Risk management derivatives, net	9,740	(12,842)	(9,112)
Impairments on AFS securities	(89)	(1,011)	(368)
<b>Total investment fair value changes, net</b>	<b>\$ (25,689)</b>	<b>\$ 10,374</b>	<b>\$ (28,574)</b>
<b>Other Income, Net</b>			
MSRs	\$ (2,508)	\$ (10,166)	\$ (36,372)
Risk management derivatives, net	(4,734)	(568)	15,584
<b>Total other income, net<sup>(3)</sup></b>	<b>\$ (7,242)</b>	<b>\$ (10,734)</b>	<b>\$ (20,788)</b>
<b>Total Market Valuation Gains (Losses), Net</b>	<b>\$ 24,069</b>	<b>\$ 51,484</b>	<b>\$ (12,917)</b>

(1) Mortgage banking activities, net presented above does not include fee income or provisions for repurchases that are components of Mortgage banking activities, net presented on our consolidated statements of income, as these amounts do not represent market valuation changes.

(2) Includes changes in fair value of the residential loans held-for-investment, REO and the ABS issued at the entities, which netted together represent the change in value of our retained investments at the consolidated VIEs.

(3) Other income, net presented above does not include net MSR fee income or provisions for repurchases for MSRs, as these amounts do not represent market valuation adjustments.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

***Valuation Policy***

We maintain policies that specify the methodologies we use to value different types of financial instruments. Significant changes to the valuation methodologies are reviewed by members of senior management to confirm the changes are appropriate and reasonable. Valuations based on information from external sources are performed on an instrument-by-instrument basis with the resulting amounts analyzed individually against internal calculations as well as in the aggregate by product type classification. Initial valuations are performed by our portfolio management groups using the valuation processes described below. Our finance department then independently reviews all fair value estimates using available market, portfolio, and industry information to ensure they are reasonable. Finally, members of senior management review all fair value estimates, including an analysis of the methodology and valuation changes from prior reporting periods.

***Valuation Process***

We estimate fair values for financial assets or liabilities based on available inputs observed in the marketplace as well as unobservable inputs. We primarily use two pricing valuation techniques: market comparable pricing and discounted cash flow analysis. Market comparable pricing is used to determine the estimated fair value of certain instruments by incorporating known inputs and performance metrics, such as observed prepayment rates, delinquencies, severities, credit support, recent transaction prices, pending transactions, or prices of other similar instruments. Discounted cash flow analysis techniques generally consist of developing an estimate of future cash flows that are expected to occur over the life of an instrument and then discounting those cash flows at a rate of return that results in an estimate of fair value. After considering all available indications of the appropriate rate of return that market participants would require, we consider the reasonableness of the range indicated by the results to determine an estimate that is most representative of fair value. We also consider counterparty credit quality and risk as part of our fair value assessments.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

The following table provides quantitative information about the significant unobservable inputs used in the valuation of our Level 3 assets and liabilities measured at fair value.

**Table 5.7 – Fair Value Methodology for Level 3 Financial Instruments**

December 31, 2018 (Dollars in Thousands, except Input Values)			Input Values					
Fair Value	Unobservable Input	Range				Weighted Average		
Assets								
Residential loans, at fair value:								
Jumbo fixed rate loans	\$ 2,738,346	Whole loan spread to TBA price	\$ 1.89	- \$ 2.52		\$ 2.21		
		Whole loan spread to swap rate	70	- 220	bps	200	bps	
Jumbo hybrid loans	396,274	Prepayment rate (annual CPR)	15	- 15	%	15	%	
		Whole loan spread to swap rate	50	- 125	bps	86	bps	
Jumbo loans committed to sell	298,002	Whole loan committed sales price	\$ 100.69	- \$ 101.66		\$ 100.70		
Loans held by Legacy Sequoia <sup>(1)</sup>	519,958	Liability price	N/A				N/A	
Loans held by Sequoia Choice <sup>(1)</sup>	2,079,382	Liability price	N/A				N/A	
Loans held by Freddie Mac SLST	1,222,669	Liability price	N/A				N/A	
Business purpose residential loans:								
Single-family rental loans	28,460	IO discount rate	12	- 12	%	12	%	
		Prepayment rate (annual CPR)	2	- 10	%	3	%	
		Senior credit spread	115	- 115	bps	115	bps	
		Subordinate credit spread	165	- 994	bps	302	bps	
		Senior credit support	32	- 32	%	32	%	
Residential bridge loans	112,798	Discount rate	7	- 8	%	7	%	
Multifamily loans held by Freddie Mac K-Series <sup>(1)</sup>	2,144,598	Liability price	N/A				N/A	
Trading and AFS securities	1,452,494	Discount rate	3	- 14	%	6	%	
		Prepayment rate (annual CPR)	—	- 60	%	10	%	
		Default rate	—	- 27	%	2	%	
		Loss severity	—	- 40	%	21	%	
Servicer advance investments	300,468	Discount rate	5	- 5	%	5	%	
		Prepayment rate (annual CPR)	8	- 16	%	14	%	
		Expected remaining life <sup>(2)</sup>	1	- 1	year	1	year	
		Mortgage servicing amount	7	- 14	bps	10	bps	
MSRs	60,281	Discount rate	11	- 29	%	11	%	
		Prepayment rate (annual CPR)	4	- 29	%	7	%	
		Per loan annual cost to service	\$ 82	- \$ 82		\$ 82		
Excess MSRs	27,312	Discount rate	12	- 19	%	17	%	
		Prepayment rate (annual CPR)	8	- 15	%	11	%	
		Excess mortgage servicing amount	7	- 18	bps	11	bps	
Guarantee asset	2,618	Discount rate	11	- 11	%	11	%	
		Prepayment rate (annual CPR)	8	- 8	%	8	%	
REO	2,225	Loss severity	2	- 50	%	18	%	

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

*Table 5.7 – Fair Value Methodology for Level 3 Financial Instruments (continued)*

December 31, 2018			Input Values					
(Dollars in Thousands, except Input Values)	Fair Value	Unobservable Input	Range				Weighted Average	
Assets (continued)								
Loan purchase commitments, net	\$ 2,181	MSR multiple	0.8	-	4.9	x	2.7	x
		Pull-through rate	10	-	98	%	69	%
		Whole loan spread to TBA price	\$ 1.89	- \$	2.52		\$ 2.51	
		Whole loan spread to swap rate - fixed rate	70	-	220	bps	198	bps
		Prepayment rate (annual CPR)	15	-	15	%	15	%
		Whole loan spread to swap rate - hybrid	60	-	100	bps	77	bps
Liabilities								
ABS issued (1)								
At consolidated Sequoia entities	2,397,250	Discount rate	4	-	15	%	4	%
		Prepayment rate (annual CPR)	8	-	50	%	18	%
		Default rate	—	-	14	%	2	%
		Loss severity	20	-	44	%	21	%
At consolidated Freddie Mac SLST entity	993,748	Discount rate	3	-	4	%	3	%
		Prepayment rate (annual CPR)	6	-	6	%	6	%
		Default rate	2	-	2	%	2	%
		Loss severity	30	-	30	%	30	%
At consolidated Freddie Mac K-Series entities	2,019,075	Discount rate	3	-	9	%	3	%
		Prepayment rate (annual CPR)	—	-	—	%	—	%
		Default rate	1	-	1	%	1	%
		Loss severity	20	-	20	%	20	%

(1) The fair value of the loans held by consolidated entities was based on the fair value of the ABS issued by these entities, which we determined were more readily observable, in accordance with accounting guidance for collateralized financing entities.

(2) Represents the estimated average duration of outstanding servicer advances at a given point in time (not taking into account new advances made with respect to the pool).

**Determination of Fair Value**

A description of the instruments measured at fair value as well as the general classification of such instruments pursuant to the Level 1, Level 2, and Level 3 valuation hierarchy is listed herein. We generally use both market comparable information and discounted cash flow modeling techniques to determine the fair value of our Level 3 assets and liabilities. Use of these techniques requires determination of relevant inputs and assumptions, some of which represent significant unobservable inputs as indicated in the preceding table. Accordingly, a significant increase or decrease in any of these inputs – such as anticipated credit losses, prepayment rates, interest rates, or other valuation assumptions – in isolation would likely result in a significantly lower or higher fair value measurement.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

*Residential loans at Redwood*

Estimated fair values for residential loans are determined using models that incorporate various observable inputs, including pricing information from whole loan sales and securitizations. Certain significant inputs in these models are considered unobservable and are therefore Level 3 in nature. Pricing inputs obtained from market whole loan transaction activity include indicative spreads to indexed TBA prices and indexed swap rates for fixed-rate loans and indexed swap rates for hybrid loans (Level 3). Pricing inputs obtained from market securitization activity include indicative spreads to indexed TBA prices for senior RMBS and indexed swap rates for subordinate RMBS, and credit support levels (Level 3). Other unobservable inputs also include assumed future prepayment rates. Observable inputs include benchmark interest rates, swap rates, and TBA prices. These assets would generally decrease in value based upon an increase in the credit spread, prepayment speed, or credit support assumptions.

*Residential and multifamily loans at consolidated entities*

We have elected to account for our consolidated securitization entities as collateralized financing entities in accordance with GAAP. A CFE is a variable interest entity that holds financial assets and issues beneficial interests in those assets, and these beneficial interests have contractual recourse only to the related assets of the CFE. Accounting guidance for CFEs allow companies to elect to measure both the financial assets and financial liabilities of a CFE using the more observable of the fair value of the financial assets or fair value of the financial liabilities. Pursuant to this guidance, we use the fair value of the ABS issued by the CFEs (which we determined to be more observable) to determine the fair value of the loans held at these entities, whereby the net assets we consolidate in our financial statements related to these entities represent the estimated fair value of our retained interests in the CFEs.

*Business purpose residential loans*

Business purpose residential loans include single-family rental loans and residential bridge loans that are generally illiquid in nature and trade infrequently. Significant inputs in the valuation analysis are predominantly Level 3 in nature, due to the lack of readily available market quotes and related inputs.

Prices for our single-family rental loans are determined using market comparable information. Significant inputs obtained from market activity include indicative spreads to indexed swap rates for senior and subordinate MBS, IO MBS discount rates, senior credit support levels, and assumed future prepayment rates (Level 3). These assets would generally decrease in value based upon an increase in the credit spread or prepayment speed assumptions.

Prices for our residential bridge loans are determined using discounted cash flow modeling, which incorporates a primary significant unobservable input of discount rate. These assets would generally decrease in value based upon an increase in the discount rate.

*Real estate securities*

Real estate securities include residential, multifamily, and other mortgage-backed securities that are generally illiquid in nature and trade infrequently. Significant inputs in the valuation analysis are predominantly Level 3 in nature, due to the lack of readily available market quotes and related inputs. For real estate securities, we utilize both market comparable pricing and discounted cash flow analysis valuation techniques. Relevant market indicators that are factored into the analysis include bid/ask spreads, the amount and timing of credit losses, interest rates, and collateral prepayment rates. Estimated fair values are based on applying the market indicators to generate discounted cash flows (Level 3). These cash flow models use significant unobservable inputs such as a discount rate, prepayment rate, default rate and loss severity. The estimated fair value of our securities would generally decrease based upon an increase in discount rate, default rates, loss severities, or a decrease in prepayment rates.

As part of our securities valuation process, we request and consider indications of value from third-party securities dealers. For purposes of pricing our securities at December 31, 2018, we received dealer price indications on 85% of our securities, representing 93% of our carrying value. In the aggregate, our internal valuations of the securities for which we received dealer price indications were within 1% of the aggregate average dealer valuations. Once we receive the price indications from dealers, they are compared to other relevant market inputs, such as actual or comparable trades, and the results of our discounted cash flow analysis. In circumstances where relevant market inputs cannot be obtained, increased reliance on discounted cash flow analysis and management judgment are required to estimate fair value.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

*Derivative assets and liabilities*

Our derivative instruments include swaps, swaptions, TBAs, financial futures, loan purchase commitments, and forward sale commitments. Fair values of derivative instruments are determined using quoted prices from active markets, when available, or from valuation models and are supported by valuations provided by dealers active in derivative markets. Fair values of TBAs and financial futures are generally obtained using quoted prices from active markets (Level 1). Our derivative valuation models for swaps and swaptions require a variety of inputs, including contractual terms, market prices, yield curves, credit curves, measures of volatility, prepayment rates, and correlations of certain inputs. Model inputs can generally be verified and model selection does not involve significant management judgment (Level 2).

LPC and FSC fair values for residential jumbo and single-family rental loans are estimated based on the estimated fair values of the underlying loans (as described in "Residential loans at Redwood" and "Business Purpose Residential Loans" above). In addition, fair values for LPCs are estimated based on the probability that the mortgage loan will be purchased (the "Pull-through rate") (Level 3).

For other derivatives, valuations are based on various factors such as liquidity, bid/ask spreads, and credit considerations for which we rely on available market inputs. In the absence of such inputs, management's best estimate is used (Level 3).

*Servicer advance investments*

Estimated fair values for servicer advance investments are determined through internal pricing models that estimate future cash flows and utilize certain significant inputs that are considered unobservable and are therefore Level 3 in nature. Our estimations of cash flows include the combined cash flows of all of the components that comprise the servicer advance investments: existing advances, the requirement to purchase future advances, the recovery of advances, and the right to a portion of the associated mortgage servicing fee. The valuation technique is based on discounted cash flows. Significant inputs used in the valuations included prepayment rate (of the loans underlying the investments), mortgage servicing amount (the amount of underlying servicing income expected to be received), servicer advance WAL (the weighted-average expected remaining life of servicer advances), and discount rate. These assets would generally decrease in value based upon an increase in prepayment rates, an increase in servicer advance WAL, or an increase in discount rate, or a decrease in mortgage servicing amount.

*MSRs*

MSRs include the rights to service jumbo and conforming residential mortgage loans. Significant inputs in the valuation analysis are predominantly Level 3, due to the nature of these instruments and the lack of readily available market quotes. Changes in the fair value of MSRs occur primarily due to the collection/realization of expected cash flows, as well as changes in valuation inputs and assumptions. Estimated fair values are based on applying the inputs to generate the net present value of estimated future MSR income (Level 3). These discounted cash flow models utilize certain significant unobservable inputs including market discount rates, assumed future prepayment rates of serviced loans, and the market cost of servicing. An increase in these unobservable inputs would generally reduce the estimated fair value of the MSRs.

As part of our MSR valuation process, we received a valuation estimate from a third-party valuations firm. In the aggregate, our internal valuation of the MSRs were within 2% of the third-party valuation.

*Excess MSRs*

Estimated fair values for excess MSRs are determined through internal pricing models that estimate future cash flows and utilize certain significant inputs that are considered unobservable and are therefore Level 3 in nature. The valuation technique is based on discounted cash flows. Significant inputs used in the valuations included prepayment rate (of the loans underlying the investments), excess mortgage servicing amount (the amount of excess servicing income expected to be received), and discount rate. These assets would generally decrease in value based upon an increase in prepayment rates or discount rate, or a decrease in excess mortgage servicing amount.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

*FHLBC stock*

Our Federal Home Loan Bank ("FHLB") member subsidiary is required to purchase Federal Home Loan Bank of Chicago ("FHLBC") stock under a borrowing agreement between our FHLB-member subsidiary and the FHLBC. Under this agreement, the stock is redeemable at face value, which represents the carrying value and fair value of the stock (Level 2).

*Guarantee asset*

The guarantee asset represents the estimated fair value of cash flows we are contractually entitled to receive related to a risk-sharing arrangement with Fannie Mae. Significant inputs in the valuation analysis are Level 3, due to the nature of this asset and the lack of market quotes. The fair value of the guarantee asset is determined using a discounted cash flow model, for which significant unobservable inputs include assumed future prepayment rates and market discount rate (Level 3). An increase in prepayment rates or discount rate would generally reduce the estimated fair value of the guarantee asset.

*Pledged collateral*

Pledged collateral consists of cash and U.S. Treasury securities held by a custodian in association with certain agreements we have entered into. Treasury securities are carried at their fair value, which is determined using quoted prices in active markets (Level 1).

*Cash and cash equivalents*

Cash and cash equivalents include cash on hand and highly liquid investments with original maturities of three months or less. Fair values equal carrying values (Level 1).

*Restricted cash*

Restricted cash primarily includes interest-earning cash balances related to risk-sharing transactions with the Agencies, cash held in association with borrowings from the FHLBC, cash held at Servicing Investment entities, and cash held at consolidated Sequoia entities for the purpose of distribution to investors and reinvestment. Due to the short-term nature of the restrictions, fair values approximate carrying values (Level 1).

*Accrued interest receivable and payable*

Accrued interest receivable and payable includes interest due on our assets and payable on our liabilities. Due to the short-term nature of when these interest payments will be received or paid, fair values approximate carrying values (Level 1).

*Real estate owned*

Real estate owned ("REO") includes properties owned in satisfaction of foreclosed loans. Fair values are determined using available market quotes, appraisals, broker price opinions, comparable properties, or other indications of value (Level 3).

*Margin receivable*

Margin receivable reflects cash collateral we have posted with our various derivative and debt counterparties as required to satisfy margin requirements. Fair values approximate carrying values (Level 2).

*Short-term debt*

Short-term debt includes our credit facilities for residential and business purpose residential loans and real estate securities as well as non-recourse short-term borrowings used to finance servicer advance investments. As these borrowings are secured and subject to margin calls and as the rates on these borrowings reset frequently to market rates, we believe that carrying values approximate fair values (Level 2).

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 5. Fair Value of Financial Instruments - (continued)**

*ABS issued*

ABS issued includes asset-backed securities issued through the Legacy Sequoia and Sequoia Choice securitization entities, as well as securities issued by certain third-party Freddie Mac K-Series and SLST securitization entities which we consolidate. These instruments are generally illiquid in nature and trade infrequently. Significant inputs in the valuation analysis are predominantly Level 3, due to the nature of these instruments and the lack of readily available market quotes. For ABS issued, we utilize both market comparable pricing and discounted cash flow analysis valuation techniques. Relevant market indicators factored into the analysis include bid/ask spreads, the amount and timing of collateral credit losses, interest rates, and collateral prepayment rates. Estimated fair values are based on applying the market indicators to generate discounted cash flows (Level 3). These cash flow models use significant unobservable inputs such as a discount rate, prepayment rate, default rate, loss severity and credit support. A decrease in credit losses or discount rates, or an increase in prepayment rates, would generally cause the fair value of the ABS issued to decrease (i.e., become a larger liability).

*FHLBC borrowings*

FHLBC borrowings include amounts borrowed from the FHLBC that are secured, generally by residential mortgage loans. As these borrowings are secured and subject to margin calls and as the rates on these borrowings reset frequently to market rates, we believe that carrying values approximate fair values (Level 2).

***Financial Instruments Carried at Amortized Cost***

*Participation in loan warehouse facility*

Our participation in a loan warehouse facility is carried at amortized cost (Level 2).

*Guarantee obligations*

In association with our risk-sharing transactions with the Agencies, we have made certain guarantees which are carried on our balance sheet at amortized cost (Level 3).

*Convertible notes*

Convertible notes include unsecured convertible and exchangeable senior notes that are carried at their unpaid principal balance net of any unamortized deferred issuance costs. The fair value of the convertible notes is determined using quoted prices in generally active markets (Level 2).

*Trust preferred securities and subordinated notes*

Trust preferred securities and subordinated notes are carried at their unpaid principal balance net of any unamortized deferred issuance costs (Level 3).

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans**

We acquire residential loans from third-party originators and may sell or securitize these loans or hold them for investment. The following table summarizes the classifications and carrying values of the residential loans owned at Redwood and at consolidated Sequoia and Freddie Mac SLST entities at December 31, 2018 and December 31, 2017.

*Table 6.1 – Classifications and Carrying Values of Residential Loans*

<b>December 31, 2018</b> <b>(In Thousands)</b>	<b>Redwood</b>	<b>Legacy Sequoia</b>	<b>Sequoia Choice</b>	<b>Freddie Mac SLST</b>	<b>Total</b>
Held-for-sale					
At fair value	\$ 1,048,690	\$ —	\$ —	\$ —	\$ 1,048,690
At lower of cost or fair value	111	—	—	—	111
Total held-for-sale	1,048,801	—	—	—	1,048,801
Held-for-investment at fair value	2,383,932	519,958	2,079,382	1,222,669	6,205,941
<b>Total Residential Loans</b>	<b>\$ 3,432,733</b>	<b>\$ 519,958</b>	<b>\$ 2,079,382</b>	<b>\$ 1,222,669</b>	<b>\$ 7,254,742</b>
<b>December 31, 2017</b> <b>(In Thousands)</b>	<b>Redwood</b>	<b>Legacy Sequoia</b>	<b>Sequoia Choice</b>	<b>Freddie Mac SLST</b>	<b>Total</b>
Held-for-sale					
At fair value	\$ 1,427,052	\$ —	\$ —	\$ —	\$ 1,427,052
At lower of cost or fair value	893	—	—	—	893
Total held-for-sale	1,427,945	—	—	—	1,427,945
Held-for-investment at fair value	2,434,386	632,817	620,062	—	3,687,265
<b>Total Residential Loans</b>	<b>\$ 3,862,331</b>	<b>\$ 632,817</b>	<b>\$ 620,062</b>	<b>\$ —</b>	<b>\$ 5,115,210</b>

At December 31, 2018, we owned mortgage servicing rights associated with \$2.62 billion (principal balance) of consolidated residential loans purchased from third-party originators. The value of these MSRs is included in the carrying value of the associated loans on our consolidated balance sheets. We contract with licensed sub-servicers that perform servicing functions for these loans.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

***Residential Loans Held-for-Sale***

*At Fair Value*

At December 31, 2018, we owned 1,484 loans held-for-sale at fair value with an aggregate unpaid principal balance of \$1.03 billion and a fair value of \$1.05 billion, compared to 2,009 loans with an aggregate unpaid principal balance of \$1.41 billion and a fair value of \$1.43 billion at December 31, 2017. At December 31, 2018, one of these loans with a fair value of \$0.6 million was greater than 90 days delinquent and none of these loans were in foreclosure. At December 31, 2017, one of these loans with a fair value of \$0.5 million was greater than 90 days delinquent and none of these loans were in foreclosure.

During the years ended December 31, 2018 and 2017, we purchased \$7.07 billion and \$5.64 billion (principal balance) of loans, respectively, for which we elected the fair value option, and we sold \$7.11 billion and \$4.21 billion (principal balance) of loans, respectively, for which we recorded net market valuation gains of \$23 million and \$31 million, respectively, through Mortgage banking activities, net on our consolidated statements of income. At December 31, 2018, loans held-for-sale with a market value of \$935 million were pledged as collateral under short-term borrowing agreements.

*At Lower of Cost or Fair Value*

At December 31, 2018 and December 31, 2017, we held two and four residential loans, respectively, at the lower of cost or fair value with \$0.1 million and \$1 million in outstanding principal balance, respectively, and carrying values of \$0.1 million and \$1 million, respectively. At December 31, 2018, none of these loans were greater than 90 days delinquent or in foreclosure. At December 31, 2017, one of these loans with an unpaid principal balance of \$0.3 million was greater than 90 days delinquent and none of these loans were in foreclosure.

***Residential Loans Held-for-Investment at Fair Value***

*At Redwood*

At December 31, 2018, we owned 3,296 held-for-investment loans at Redwood with an aggregate unpaid principal balance of \$2.39 billion and a fair value of \$2.38 billion, compared to 3,292 loans with an aggregate unpaid principal balance of \$2.41 billion and a fair value of \$2.43 billion at December 31, 2017. At December 31, 2018, two of these loans with a total fair value of \$1 million were greater than 90 days delinquent and none of these loans were in foreclosure. At December 31, 2017, none of these loans were greater than 90 days delinquent or in foreclosure.

During the years ended December 31, 2018 and 2017, we transferred loans with a fair value of \$286 million and \$600 million, respectively, from held-for-sale to held-for-investment. During the years ended December 31, 2018 and 2017, we transferred loans with a fair value of \$16 million and \$99 million, respectively, from held-for-investment to held-for-sale.

During the years ended December 31, 2018 and 2017, we recorded net market valuation losses of \$30 million and \$5 million, respectively, on residential loans held-for-investment at fair value through Investment fair value changes, net on our consolidated statements of income. At December 31, 2018, loans with a fair value of \$2.38 billion were pledged as collateral under a borrowing agreement with the FHLBC.

The outstanding loans held-for-investment at Redwood at December 31, 2018 were prime-quality, first-lien loans, of which 96% were originated between 2013 and 2018, and 4% were originated in 2012 and prior years. The weighted average Fair Isaac Corporation ("FICO") score of borrowers backing these loans was 768 (at origination) and the weighted average loan-to-value ("LTV") ratio of these loans was 66% (at origination). At December 31, 2018, these loans were comprised of 87% fixed-rate loans with a weighted average coupon of 4.12%, and the remainder were hybrid or ARM loans with a weighted average coupon of 4.23%.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

*At Consolidated Legacy Sequoia Entities*

At December 31, 2018, we consolidated 2,641 held-for-investment loans at consolidated Legacy Sequoia entities, with an aggregate unpaid principal balance of \$545 million and a fair value of \$520 million, as compared to 3,178 loans at December 31, 2017, with an aggregate unpaid principal balance of \$698 million and a fair value of \$633 million. At origination, the weighted average FICO score of borrowers backing these loans was 728, the weighted average LTV ratio of these loans was 66%, and the loans were nearly all first lien and prime-quality.

At December 31, 2018 and December 31, 2017, the unpaid principal balance of loans at consolidated Sequoia entities delinquent greater than 90 days was \$14 million and \$25 million, respectively, of which the unpaid principal balance of loans in foreclosure was \$5 million and \$10 million, respectively. During the years ended December 31, 2018 and 2017, we recorded net market valuation gains of \$37 million and \$23 million, respectively, on these loans through Investment fair value changes, net on our consolidated statements of income. Pursuant to the collateralized financing entity guidelines, the market valuation changes of these loans are based on the estimated fair value of the associated ABS issued. The net impact to our income statement associated with our retained economic investment in the Legacy Sequoia securitization entities is presented in *Note 5*.

*At Consolidated Sequoia Choice Entities*

At December 31, 2018, we consolidated 2,800 held-for-investment loans at consolidated Sequoia Choice entities, with an aggregate unpaid balance of \$2.04 billion and a fair value of \$2.08 billion, as compared to 806 loans at December 31, 2017, with an aggregate unpaid principal balance of \$605 million and a fair value of \$620 million. At origination, the weighted average FICO score of borrowers backing these loans was 744, the weighted average LTV ratio of these loans was 75%, and the loans were all first lien and prime-quality. At December 31, 2018, three of these loans with an unpaid principal balance of \$2 million were greater than 90 days delinquent and none of these loans were in foreclosure. At December 31, 2017, none of these loans were greater than 90 days delinquent or in foreclosure.

During the years ended December 31, 2018 and 2017, we transferred loans with a fair value of \$1.78 billion and \$646 million, respectively, from held-for-sale to held-for-investment associated with Choice securitizations. During the years ended December 31, 2018 and 2017, we recorded net market valuation losses of \$13 million and \$5 million, respectively, on these loans through Investment fair value changes, net on our consolidated statements of income. Pursuant to the collateralized financing entity guidelines, the market valuation changes of these loans are based on the estimated fair value of the ABS issued associated with Choice securitizations. The net impact to our income statement associated with our retained economic investment in the Sequoia Choice securitization entities is presented in *Note 5*.

*At Consolidated Freddie Mac SLST Entity*

During the fourth quarter of 2018, we invested in subordinate securities issued by a Freddie Mac SLST securitization trust and were required to consolidate the underlying seasoned re-performing and non-performing residential loans owned at this entity for financial reporting purposes in accordance with GAAP. At securitization, which occurred during the fourth quarter of 2018, each of these mortgage loans is a fully amortizing, fixed- or step-rate, first-lien loan that has been modified. At December 31, 2018, we consolidated 7,900 held-for-investment loans at the consolidated Freddie Mac SLST entity, with an aggregate unpaid balance of \$1.31 billion and a fair value of \$1.22 billion. We did not own or consolidate any residential loans held at the Freddie Mac SLST entity at December 31, 2017. At securitization, which occurred during the fourth quarter of 2018, the weighted average FICO score of borrowers backing these loans was 598 and the weighted average LTV ratio of these loans was 68%. At December 31, 2018, 306 of these loans with an unpaid principal balance of \$51 million were greater than 90 days delinquent and none of these loans were in foreclosure.

During the year ended December 31, 2018, we recorded a net market valuation gain of \$21 million on these loans through Investment fair value changes, net on our consolidated statements of income. Pursuant to the collateralized financing entity guidelines, the market valuation changes of these loans are based on the estimated fair value of the ABS issued associated with the Freddie Mac SLST securitization. The net impact to our income statement associated with our economic investment in the Freddie Mac SLST securitization entity is presented in *Note 5*.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

***Residential Loan Characteristics***

The following table presents the geographic concentration of residential loans recorded on our consolidated balance sheets at December 31, 2018 and December 31, 2017.

**Table 6.2 – Geographic Concentration of Residential Loans**

<b>Geographic Concentration (by Principal)</b>	<b>December 31, 2018</b>				
	<b>Held-for-Sale</b>	<b>Held-for- Investment at Legacy Sequoia</b>	<b>Held-for- Investment at Sequoia Choice</b>	<b>Held-for-Investment at Freddie Mac SLST</b>	<b>Held-for- Investment at FVO</b>
California	40 %	19 %	39 %	12 %	47 %
Washington	10 %	1 %	7 %	2 %	5 %
Texas	6 %	6 %	8 %	3 %	8 %
Florida	4 %	13 %	4 %	10 %	5 %
New Jersey	2 %	4 %	1 %	7 %	1 %
New York	3 %	10 %	5 %	10 %	3 %
Other states (none greater than 5%)	35 %	47 %	36 %	56 %	31 %
<b>Total</b>	<b>100 %</b>	<b>100 %</b>	<b>100 %</b>	<b>100 %</b>	<b>100 %</b>

<b>Geographic Concentration (by Principal)</b>	<b>December 31, 2017</b>				
	<b>Held-for-Sale</b>	<b>Held-for- Investment at Legacy Sequoia</b>	<b>Held-for- Investment at Sequoia Choice</b>	<b>Held-for-Investment at Freddie Mac SLST</b>	<b>Held-for- Investment at FVO</b>
California	35 %	18 %	39 %	— %	45 %
Washington	9 %	2 %	7 %	— %	5 %
Texas	7 %	5 %	10 %	— %	9 %
Florida	4 %	13 %	4 %	— %	5 %
Georgia	2 %	5 %	3 %	— %	1 %
New York	2 %	9 %	3 %	— %	4 %
Other states (none greater than 5%)	41 %	48 %	34 %	— %	31 %
<b>Total</b>	<b>100 %</b>	<b>100 %</b>	<b>100 %</b>	<b>— %</b>	<b>100 %</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

The following table displays the loan product type and accompanying loan characteristics of residential loans recorded on our consolidated balance sheets at December 31, 2018 and December 31, 2017.

**Table 6.3 – Product Types and Characteristics of Residential Loans**

**December 31, 2018**

**(In Thousands)**

<b>Loan Balance</b>	<b>Number of Loans</b>	<b>Interest Rate<sup>(1)</sup></b>	<b>Maturity Date</b>	<b>Total Principal</b>	<b>30-89 Days DQ</b>	<b>90+ Days DQ</b>
<b>Held-for-Investment at Redwood:</b>						
Hybrid ARM loans						
\$ — to \$250	12	2.88% to 4.88%	2043-09 - 2046-01	\$ 2,190	\$ 59	\$ —
\$ 251 to \$500	59	2.63% to 5.75%	2043-08 - 2048-08	23,986	—	—
\$ 501 to \$750	116	2.88% to 5.75%	2043-03 - 2048-08	73,360	692	—
\$ 751 to \$1,000	129	2.88% to 6.38%	2043-09 - 2048-09	111,879	—	—
over \$1,000	69	3.00% to 5.50%	2040-10 - 2048-10	92,151	1,112	—
	<u>385</u>			<u>303,566</u>	<u>1,863</u>	<u>—</u>
Fixed loans						
\$ — to \$250	36	3.30% to 5.08%	2028-11 - 2047-12	6,737	—	—
\$ 251 to \$500	679	2.75% to 5.75%	2027-09 - 2048-11	292,730	—	—
\$ 501 to \$750	1,213	2.75% to 6.75%	2027-10 - 2048-11	746,503	1,320	1,224
\$ 751 to \$1,000	599	2.75% to 6.13%	2027-07 - 2048-11	517,075	903	—
over \$1,000	384	2.80% to 5.88%	2031-04 - 2048-11	518,719	2,000	—
	<u>2,911</u>			<u>2,081,764</u>	<u>4,223</u>	<u>1,224</u>
<b>Total HFI at Redwood:</b>	<u>3,296</u>			<u>\$ 2,385,330</u>	<u>\$ 6,086</u>	<u>\$ 1,224</u>
<b>Held-for-Investment at Legacy Sequoia:</b>						
ARM loans:						
\$ — to \$250	1,988	1.25% to 5.50%	2019-02 - 2035-11	\$ 206,490	\$ 7,179	\$ 3,952
\$ 251 to \$500	424	1.25% to 5.63%	2023-05 - 2036-05	148,154	5,989	4,368
\$ 501 to \$750	110	1.63% to 4.50%	2022-01 - 2035-02	67,471	1,309	1,880
\$ 751 to \$1,000	61	1.63% to 4.38%	2027-11 - 2036-03	51,918	791	2,561
over \$1,000	37	1.63% to 4.38%	2027-12 - 2036-05	61,710	1,023	1,194
	<u>2,620</u>			<u>535,743</u>	<u>16,291</u>	<u>13,955</u>
Hybrid ARM loans:						
\$ — to \$250	4	4.63% to 5.00%	2033-08 - 2034-06	769	—	—
\$ 251 to \$500	10	2.63% to 4.88%	2033-07 - 2034-06	3,675	—	—
\$ 501 to \$750	6	4.38% to 5.00%	2033-08 - 2034-11	3,667	—	—
over \$1,000	1	4.88% to 4.88%	2033-09 - 2033-09	1,355	—	—
	<u>21</u>			<u>9,466</u>	<u>—</u>	<u>—</u>
<b>Total HFI at Legacy Sequoia:</b>	<u>2,641</u>			<u>\$ 545,209</u>	<u>\$ 16,291</u>	<u>\$ 13,955</u>
<b>Held-for-Investment at Sequoia Choice:</b>						
Fixed loans:						
\$ — to \$250	29	2.75% to 5.63%	2038-03 - 2048-09	\$ 5,484	\$ —	\$ —
\$ 251 to \$500	336	3.13% to 6.13%	2037-12 - 2048-09	149,917	1,419	925
\$ 501 to \$750	1,363	3.13% to 6.38%	2037-02 - 2048-09	841,692	3,633	—
\$ 751 to \$1,000	761	3.25% to 6.50%	2035-04 - 2048-09	659,845	3,549	980
over \$1,000	311	3.13% to 5.88%	2038-01 - 2048-09	384,072	2,188	—
<b>Total HFI at Sequoia Choice:</b>	<u>2,800</u>			<u>\$ 2,041,010</u>	<u>\$ 10,789</u>	<u>\$ 1,905</u>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

*Table 6.3 – Product Types and Characteristics of Residential Loans (continued)*

December 31, 2018

(In Thousands)

Loan Balance	Number of Loans	Interest Rate <sup>(1)</sup>	Maturity Date	Total Principal	30-89 Days DQ	90+ Days DQ
<b>Held-for-Investment at Freddie Mac SLST:</b>						
Fixed loans:						
\$ — to \$250	6,404	2.00% to 10.50%	2018-12 - 2058-10	\$ 830,118	\$ 130,608	\$ 30,686
\$ 251 to \$500	1,469	2.00% to 7.38%	2033-08 - 2058-11	466,222	66,706	19,319
\$ 501 to \$750	27	2.00% to 5.88%	2050-02 - 2057-12	14,634	1,631	523
<b>Total HFI at Freddie Mac SLST:</b>	<b>7,900</b>			<b>\$ 1,310,974</b>	<b>\$ 198,945</b>	<b>\$ 50,528</b>
<b>Held-for-Sale:</b>						
ARM loans						
\$ — to \$250	2	4.00% to 4.13%	2032-11 - 2032-11	\$ 150	\$ —	\$ —
Hybrid ARM loans						
\$ 251 to \$500	8	3.88% to 5.38%	2048-05 - 2048-12	3,795	—	—
\$ 501 to \$750	50	3.63% to 7.38%	2048-01 - 2049-01	31,759	—	—
\$ 751 to \$1,000	27	3.88% to 5.25%	2048-02 - 2049-01	23,478	—	—
over \$1,000	23	3.50% to 5.50%	2047-04 - 2048-12	28,112	—	—
	<b>108</b>			<b>87,144</b>	<b>—</b>	<b>—</b>
Fixed loans						
\$ — to \$250	6	4.38% to 5.75%	2048-08 - 2048-11	1,180	—	—
\$ 251 to \$500	188	3.13% to 6.38%	2029-04 - 2049-01	88,204	—	—
\$ 501 to \$750	788	3.75% to 7.00%	2033-11 - 2049-01	475,935	559	747
\$ 751 to \$1,000	295	3.25% to 6.63%	2033-12 - 2049-01	255,429	—	—
over \$1,000	99	3.75% to 6.13%	2032-10 - 2049-01	126,392	—	—
	<b>1,376</b>			<b>947,140</b>	<b>559</b>	<b>747</b>
<b>Total Held-for-Sale</b>	<b>1,486</b>			<b>\$ 1,034,434</b>	<b>\$ 559</b>	<b>\$ 747</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

*Table 6.3 – Product Types and Characteristics of Residential Loans (continued)*

December 31, 2017

(In Thousands)

Loan Balance	Number of Loans	Interest Rate <sup>(1)</sup>	Maturity Date	Total Principal	30-89 Days DQ	90+ Days DQ
<b>Held-for-Investment at Redwood:</b>						
Hybrid ARM loans						
\$ — to \$250	7	3.50% to 3.88%	2043-08 - 2044-01	\$ 1,589	\$ 438	\$ —
\$ 251 to \$500	43	2.63% to 4.88%	2043-07 - 2047-10	16,703	566	—
\$ 501 to \$750	87	2.88% to 5.13%	2040-09 - 2047-11	55,709	1,226	—
\$ 751 to \$1,000	82	2.88% to 6.00%	2043-12 - 2047-11	71,819	984	—
over \$1,000	40	3.00% to 5.00%	2040-10 - 2047-11	57,641	—	—
	<u>259</u>			<u>203,461</u>	<u>3,214</u>	<u>—</u>
Fixed loans						
\$ — to \$250	34	3.13% to 5.08%	2022-10 - 2046-02	6,758	—	—
\$ 251 to \$500	681	2.80% to 6.13%	2028-02 - 2047-12	296,950	1,380	—
\$ 501 to \$750	1,261	2.75% to 6.75%	2027-09 - 2047-12	777,103	3,818	—
\$ 751 to \$1,000	649	2.75% to 5.00%	2027-07 - 2047-12	559,426	2,566	—
over \$1,000	408	2.80% to 5.00%	2030-11 - 2048-01	564,295	—	—
	<u>3,033</u>			<u>2,204,532</u>	<u>7,764</u>	<u>—</u>
<b>Total HFI at Redwood:</b>	<u>3,292</u>			<u>\$ 2,407,993</u>	<u>\$ 10,978</u>	<u>\$ —</u>
<b>Held-for-Investment at Legacy Sequoia:</b>						
ARM loans:						
\$ — to \$250	2,324	1.25% to 5.16%	2019-02 - 2035-11	\$ 253,438	\$ 7,436	\$ 7,284
\$ 251 to \$500	541	1.00% to 5.63%	2021-03 - 2036-05	189,360	9,082	9,178
\$ 501 to \$750	151	1.63% to 4.00%	2024-05 - 2035-09	91,244	1,995	2,589
\$ 751 to \$1,000	76	1.38% to 3.38%	2022-01 - 2035-07	65,276	1,790	1,725
over \$1,000	53	1.00% to 4.63%	2027-03 - 2036-05	83,393	—	4,040
	<u>3,145</u>			<u>682,711</u>	<u>20,303</u>	<u>24,816</u>
Hybrid ARM loans:						
\$ — to \$250	4	3.25% to 3.75%	2033-08 - 2034-06	530	—	—
\$ 251 to \$500	17	2.63% to 3.75%	2033-07 - 2034-12	6,170	—	—
\$ 501 to \$750	11	3.38% to 3.75%	2033-07 - 2034-11	7,091	—	641
over \$1,000	1	3.75% to 3.75%	2033-09 - 2033-09	1,420	—	—
	<u>33</u>			<u>15,211</u>	<u>—</u>	<u>641</u>
<b>Total HFI at Legacy Sequoia:</b>	<u>3,178</u>			<u>\$ 697,922</u>	<u>\$ 20,303</u>	<u>\$ 25,457</u>
<b>Held-for-Investment at Sequoia Choice:</b>						
Fixed loans:						
\$ — to \$250	4	2.75% to 4.75%	2043-05 - 2047-07	\$ 641	\$ —	\$ —
\$ 251 to \$500	85	3.13% to 5.75%	2042-11 - 2047-10	38,900	486	—
\$ 501 to \$750	388	3.13% to 6.25%	2037-02 - 2047-11	240,538	672	—
\$ 751 to \$1,000	239	3.25% to 6.50%	2043-05 - 2047-10	210,235	—	—
over \$1,000	90	3.13% to 5.88%	2045-01 - 2047-10	114,433	—	—
	<u>806</u>			<u>\$ 604,747</u>	<u>\$ 1,158</u>	<u>\$ —</u>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 6. Residential Loans - (continued)**

*Table 6.3 – Product Types and Characteristics of Residential Loans (continued)*

**December 31, 2017**

**(In Thousands)**

<b>Loan Balance</b>	<b>Number of Loans</b>	<b>Interest Rate<sup>(1)</sup></b>	<b>Maturity Date</b>	<b>Total Principal</b>	<b>30-89 Days DQ</b>	<b>90+ Days DQ</b>
<b>Held-for-Sale:</b>						
ARM loans						
\$ — to \$250	2	2.88% to 3.00%	2032-11 - 2032-11	\$ 158	\$ —	\$ —
\$ 251 to \$500	1	1.50% to 1.50%	2033-10 - 2033-10	286	—	—
	<u>3</u>			<u>444</u>	<u>—</u>	<u>—</u>
Hybrid ARM loans						
\$ 251 to \$500	8	3.25% to 3.88%	2047-07 - 2047-12	3,708	—	—
\$ 501 to \$750	44	3.00% to 3.88%	2037-06 - 2048-01	28,165	—	—
\$ 751 to \$1,000	19	2.88% to 4.00%	2044-11 - 2047-12	16,675	—	—
over \$1,000	22	3.25% to 4.00%	2044-08 - 2047-12	30,336	—	—
	<u>93</u>			<u>78,884</u>	<u>—</u>	<u>—</u>
Fixed loans						
\$ — to \$250	1	4.40% to 4.40%	2045-07 - 2045-07	132	—	—
\$ 251 to \$500	330	3.25% to 5.63%	2030-11 - 2048-01	153,021	495	459
\$ 501 to \$750	1,005	2.88% to 6.00%	2029-08 - 2048-01	613,647	540	—
\$ 751 to \$1,000	423	3.00% to 6.25%	2029-05 - 2048-01	370,379	878	—
over \$1,000	158	3.25% to 5.75%	2030-11 - 2048-01	192,672	—	—
	<u>1,917</u>			<u>1,329,851</u>	<u>1,913</u>	<u>459</u>
<b>Total Held-for-Sale</b>	<u><b>2,013</b></u>			<u><b>\$ 1,409,179</b></u>	<u><b>\$ 1,913</b></u>	<u><b>\$ 459</b></u>

(1) Rate is net of servicing fee for consolidated loans for which we do not own the MSR.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 7. Business Purpose Residential Loans**

Our business purpose residential loans include single-family rental loans and residential bridge loans. At December 31, 2018, all of our outstanding business purpose residential loans were acquired from a related party, 5 Arches LLC ("5 Arches"). See *Note 10* for information on our equity investment in 5 Arches. The following table summarizes the classifications and carrying values of the business purpose residential loans owned at Redwood at December 31, 2018 and December 31, 2017.

**Table 7.1 – Classifications and Carrying Values of Business Purpose Residential Loans**

(In Thousands)	December 31, 2018	December 31, 2017
Single-family rental loans, held-for-sale at fair value	\$ 28,460	\$ —
Residential bridge loans, held-for-investment at fair value	112,798	—
<b>Total Business Purpose Residential Loans</b>	<b>\$ 141,258</b>	<b>\$ —</b>

***Single-Family Rental Loans Held-for-Sale at Fair Value***

At December 31, 2018, we owned 11 single-family rental loans purchased from 5 Arches with an aggregate unpaid principal balance of \$28 million and a fair value of \$28 million. At December 31, 2018, none of these loans were greater than 90 days delinquent or in foreclosure. During the year ended December 31, 2018, we purchased \$28 million (principal balance) of loans, for which we elected the fair value option, and we did not sell any loans. During the year ended December 31, 2018, we recorded a net market valuation gain of \$0.3 million on single-family rental loans held-for-sale at fair value through Mortgage banking activities, net on our consolidated statements of income. At December 31, 2018, loans held-for-sale with a market value of \$28 million were pledged as collateral under short-term borrowing agreements.

The outstanding single-family rental loans held-for-sale at December 31, 2018 were first-lien, fixed-rate loans with maturities of five, seven, or ten years. At December 31, 2018, the weighted average coupon of our single-family rental loans was 5.90% and the weighted average loan term was seven years. At origination, the weighted average LTV ratio of these loans was 64% and the weighted average debt service coverage ratio ("DSCR") was 1.29.

***Residential Bridge Loans Held-for-Investment at Fair Value***

At December 31, 2018, we owned 157 residential bridge loans held-for-investment with an aggregate unpaid principal balance of \$112 million and a fair value of \$113 million. At December 31, 2018, seven of these loans with an aggregate unpaid principal balance of \$12 million were greater than 90 days delinquent and none of these loans were in foreclosure. During the year ended December 31, 2018, we purchased \$140 million (principal balance) of loans, and we did not sell any loans. During the year ended December 31, 2018, we recorded a net market valuation loss of less than \$0.1 million on residential bridge loans held-for-investment at fair value through Investment fair value changes, net on our consolidated statements of income. At December 31, 2018, loans with a market value of \$98 million were pledged as collateral under short-term borrowing agreements.

The outstanding residential bridge loans held-for-investment at December 31, 2018 were first-lien, fixed-rate, interest-only loans with a weighted average coupon of 9.16% and original maturities of 6 to 24 months. At origination, the weighted average FICO score of borrowers backing these loans was 698, the weighted average LTV ratio of these loans was 76%, and the estimated rehabilitated LTV ratio was 59%.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 7. Business Purpose Residential Loans - (continued)**

***Business Purpose Residential Loan Characteristics***

The following table presents the geographic concentration of business purpose residential loans recorded on our consolidated balance sheets at December 31, 2018.

**Table 7.2 – Geographic Concentration of Business Purpose Residential Loans**

<b>Geographic Concentration (by Principal)</b>	<b>December 31, 2018</b>	
	<b>Single-Family Rental</b>	<b>Residential Bridge</b>
Florida	69 %	7 %
Texas	14 %	— %
California	— %	79 %
Utah	— %	5 %
Other states (none greater than 5%)	17 %	9 %
<b>Total</b>	<b>100 %</b>	<b>100 %</b>

The following table displays the loan product type and accompanying loan characteristics of business purpose residential loans recorded on our consolidated balance sheets at December 31, 2018.

**Table 7.3 – Product Types and Characteristics of Business Purpose Residential Loans**

**December 31, 2018**  
**(In Thousands)**

<b>Loan Balance</b>	<b>Number of Loans</b>	<b>Interest Rate</b>	<b>Maturity Date</b>	<b>Total Principal</b>	<b>30-89 Days DQ</b>	<b>90+ Days DQ</b>
<b>Single-Family Rental:</b>						
Fixed loans:						
\$ 251 to \$500	2	6.79% to 7.47%	2028-08 - 2028-12	\$ 787	\$ —	\$ —
\$ 501 to \$750	2	6.12% to 7.25%	2023-09 - 2028-11	1,252	—	—
\$ 751 to \$1,000	3	5.91% to 6.58%	2023-11 - 2028-12	2,488	—	—
over \$1,000	4	5.62% to 6.94%	2023-10 - 2025-12	23,039	—	—
<b>Total Single-Family Rental:</b>	<b>11</b>			<b>\$ 27,566</b>	<b>\$ —</b>	<b>\$ —</b>
<b>Residential Bridge:</b>						
Fixed loans:						
\$ — to \$250	50	8.00% to 12.00%	2018-07 - 2020-05	\$ 7,941	\$ 262	\$ 695
\$ 251 to \$500	38	8.00% to 10.00%	2018-09 - 2019-12	13,297	636	469
\$ 501 to \$750	21	7.50% to 10.00%	2019-01 - 2019-12	12,410	1,769	—
\$ 751 to \$1,000	19	7.50% to 10.00%	2019-04 - 2019-12	16,937	840	—
over \$1,000	29	8.00% to 10.00%	2018-09 - 2019-12	61,775	1,484	10,970
<b>Total Residential Bridge:</b>	<b>157</b>			<b>\$ 112,360</b>	<b>\$ 4,991</b>	<b>\$ 12,134</b>



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 8. Multifamily Loans**

During the third and fourth quarters of 2018, we invested in multifamily subordinate securities issued by three Freddie Mac K-Series securitization trusts and were required to consolidate the underlying multifamily loans owned at these entities for financial reporting purposes in accordance with GAAP. At December 31, 2018, we consolidated 162 held-for-investment multifamily loans, with an aggregate unpaid balance of \$2.13 billion and a fair value of \$2.14 billion. We did not own or consolidate any multifamily loans at December 31, 2017. The outstanding multifamily loans held-for-investment at the Freddie Mac K-Series entities at December 31, 2018 were first-lien, fixed-rate loans that were originated in 2015 and 2016 and had original loan terms of seven to ten years and an original weighted average LTV ratio of 69%. At December 31, 2018, the weighted average coupon of these multifamily loans was 4.16% and the weighted average remaining loan term was seven years. At December 31, 2018, none of these loans were greater than 90 days delinquent or in foreclosure.

During the year ended December 31, 2018, we recorded a net market valuation gain of \$47 million on these loans through Investment fair value changes, net on our consolidated statements of income. Pursuant to the collateralized financing entity guidelines, the market valuation changes of these loans are based on the estimated fair value of the ABS issued associated with the securitizations. The net impact to our income statement associated with our economic investment in the securities of the Freddie Mac K-Series securitization entities is presented in *Note 5*.

***Multifamily Loan Characteristics***

The following table presents the geographic concentration of multifamily loans recorded on our consolidated balance sheets at December 31, 2018.

***Table 8.1 – Geographic Concentration of Multifamily Loans***

<b>Geographic Concentration (by Principal)</b>	<b>December 31, 2018</b>
California	11 %
Texas	9 %
Arizona	8 %
Georgia	6 %
Other states (none greater than 5%)	66 %
<b>Total</b>	<b>100 %</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 8. Multifamily Loans - (continued)**

The following table displays the loan product type and accompanying loan characteristics of multifamily loans recorded on our consolidated balance sheets at December 31, 2018.

**Table 8.2 – Product Types and Characteristics of Multifamily Loans**

**December 31, 2018**

**(In Thousands)**

<b>Loan Balance</b>	<b>Number of Loans</b>	<b>Interest Rate</b>	<b>Maturity Date</b>	<b>Total Principal</b>	<b>30-89 Days DQ</b>	<b>90+ Days DQ</b>
Fixed loans:						
\$ 1,000 to \$10,000	70	3.29% to 4.73%	2023-02 - 2027-01	\$ 394,373	\$ —	\$ —
\$ 10,001 to \$20,000	66	3.54% to 4.61%	2023-09 - 2027-01	960,992	—	—
\$ 20,001 to \$30,000	16	3.65% to 4.72%	2024-01 - 2026-12	373,036	—	—
\$ 30,001 to \$40,000	7	3.62% to 4.71%	2025-11 - 2026-06	244,074	—	—
over \$40,000	3	3.74% to 4.18%	2024-10 - 2026-06	154,223	—	—
<b>Total:</b>	<b>162</b>			<b>\$ 2,126,698</b>	<b>\$ —</b>	<b>\$ —</b>

**Note 9. Real Estate Securities**

We invest in real estate securities that we acquire from third parties or create and retain from our Sequoia securitizations. The following table presents the fair values of our real estate securities by type at December 31, 2018 and December 31, 2017.

**Table 9.1 – Fair Values of Real Estate Securities by Type**

<b>(In Thousands)</b>	<b>December 31, 2018</b>	<b>December 31, 2017</b>
Trading	\$ 1,118,612	\$ 968,844
Available-for-sale	333,882	507,666
<b>Total Real Estate Securities</b>	<b>\$ 1,452,494</b>	<b>\$ 1,476,510</b>

Our real estate securities include mortgage-backed securities, which are presented in accordance with their general position within a securitization structure based on their rights to cash flows. Senior securities are those interests in a securitization that generally have the first right to cash flows and are last in line to absorb losses. Mezzanine securities are interests that are generally subordinate to senior securities in their rights to receive cash flows, and have subordinate securities below them that are first to absorb losses. Most of our mezzanine classified securities were initially rated AA through BBB- and issued in 2012 or later. Subordinate securities are all interests below mezzanine. Nearly all of our residential securities are supported by collateral that was designated as prime at the time of issuance.

**Trading Securities**

The following table presents the fair value of trading securities by position and collateral type at December 31, 2018 and December 31, 2017.

**Table 9.2 – Trading Securities by Position and Collateral Type**

<b>(In Thousands)</b>	<b>December 31, 2018</b>	<b>December 31, 2017</b>
Senior	\$ 158,670	\$ 69,974
Mezzanine	610,819	563,475
Subordinate	349,123	335,395
<b>Total Trading Securities</b>	<b>\$ 1,118,612</b>	<b>\$ 968,844</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 9. Real Estate Securities - (continued)**

We elected the fair value option for certain securities and classify them as trading securities. Our trading securities include both residential and multifamily securities. At December 31, 2018, trading securities with a carrying value of \$747 million as well as \$130 million, \$229 million, and \$18 million of securities we owned that were issued by consolidated Sequoia Choice, Freddie Mac SLST, and Freddie Mac K-Series securitizations, respectively, were pledged as collateral under short-term borrowing agreements. See *Note 13* for additional information on short-term debt.

At December 31, 2018 and 2017, our senior trading securities included \$82 million and \$70 million of interest-only securities, respectively, for which there is no principal balance, and the remaining unpaid principal balance of our senior trading securities was \$78 million and zero, respectively. Our interest-only securities included \$43 million and \$15 million of A-IO-S securities at December 31, 2018 and 2017, respectively, which are securities we retained from certain of our Sequoia securitizations that represent certificated servicing strips.

At December 31, 2018 and 2017, our mezzanine and subordinate trading securities had an unpaid principal balance of \$1.08 billion and \$943 million, respectively. At December 31, 2018 and 2017, the fair value of our mezzanine and subordinate securities was \$960 million and \$899 million, respectively, and included \$238 million and \$301 million, respectively, of Agency residential mortgage credit risk transfer (or "CRT") securities, \$68 million and \$68 million, respectively, of Sequoia securities, \$225 million and \$206 million, respectively, of other third party residential securities, and \$429 million and \$324 million, respectively, of third-party commercial/multifamily securities.

During the years ended December 31, 2018 and 2017, we acquired \$688 million and \$661 million (principal balance), respectively, of securities for which we elected the fair value option and classified as trading, and sold \$415 million and \$132 million, respectively, of such securities. During the years ended December 31, 2018 and 2017, we recorded a net market valuation loss of \$8 million and a net market valuation gain of \$40 million, respectively, on trading securities, included in Investment fair value changes, net on our consolidated statements of income.

**AFS Securities**

The following table presents the fair value of our available-for-sale securities by position and collateral type at December 31, 2018 and December 31, 2017.

**Table 9.3 – Available-for-Sale Securities by Position and Collateral Type**

(In Thousands)	December 31, 2018	December 31, 2017
Senior	\$ 87,615	\$ 179,864
Mezzanine	36,407	92,002
Subordinate	209,860	235,800
<b>Total AFS Securities</b>	<b>\$ 333,882</b>	<b>\$ 507,666</b>

At December 31, 2018 and December 31, 2017, all of our available-for-sale securities were comprised of residential mortgage-backed securities. At December 31, 2018, AFS securities with a carrying value of \$98 million were pledged as collateral under short-term borrowing agreements. See *Note 13* for additional information on short-term debt.

During the years ended December 31, 2018 and 2017, we purchased \$8 million and \$40 million of AFS securities, respectively, and sold \$144 million and \$90 million of AFS securities, respectively, which resulted in net realized gains of \$27 million and \$14 million, respectively.

We often purchase AFS securities at a discount to their outstanding principal balances. To the extent we purchase an AFS security that has a likelihood of incurring a loss, we do not amortize into income the portion of the purchase discount that we do not expect to collect due to the inherent credit risk of the security. We may also expense a portion of our investment in the security to the extent we believe that principal losses will exceed the purchase discount. We designate any amount of unpaid principal balance that we do not expect to receive, and thus do not expect to earn or recover, as a credit reserve on the security. Any remaining net unamortized discounts or premiums on the security are amortized into income over time using the effective yield method.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 9. Real Estate Securities - (continued)**

At December 31, 2018, there were no AFS securities with contractual maturities less than five years, \$2 million with contractual maturities greater than five years but less than 10 years, and the remainder of our AFS securities had contractual maturities greater than 10 years.

The following table presents the components of carrying value (which equals fair value) of AFS securities at December 31, 2018 and December 31, 2017.

**Table 9.4 – Carrying Value of AFS Securities**

<b>December 31, 2018</b>				
<b>(In Thousands)</b>	<b>Senior</b>	<b>Mezzanine</b>	<b>Subordinate</b>	<b>Total</b>
Principal balance	\$ 91,736	\$ 36,852	\$ 302,524	\$ 431,112
Credit reserve	(7,790)	—	(33,580)	(41,370)
Unamortized discount, net	(18,460)	(3,697)	(129,043)	(151,200)
Amortized cost	65,486	33,155	139,901	238,542
Gross unrealized gains	22,178	3,252	70,458	95,888
Gross unrealized losses	(49)	—	(499)	(548)
<b>Carrying Value</b>	<b>\$ 87,615</b>	<b>\$ 36,407</b>	<b>\$ 209,860</b>	<b>\$ 333,882</b>

<b>December 31, 2017</b>				
<b>(In Thousands)</b>	<b>Senior</b>	<b>Mezzanine</b>	<b>Subordinate</b>	<b>Total</b>
Principal balance	\$ 189,125	\$ 91,471	\$ 327,549	\$ 608,145
Credit reserve	(8,756)	—	(37,793)	(46,549)
Unamortized discount, net	(44,041)	(9,407)	(130,305)	(183,753)
Amortized cost	136,328	82,064	159,451	377,843
Gross unrealized gains	44,771	9,938	76,481	131,190
Gross unrealized losses	(1,235)	—	(132)	(1,367)
<b>Carrying Value</b>	<b>\$ 179,864</b>	<b>\$ 92,002</b>	<b>\$ 235,800</b>	<b>\$ 507,666</b>

The following table presents the changes for the years ended December 31, 2018 and 2017, in unamortized discount and designated credit reserves on residential AFS securities.

**Table 9.5 – Changes in Unamortized Discount and Designated Credit Reserves on AFS Securities**

<b>(In Thousands)</b>	<b>Year Ended December 31, 2018</b>		<b>Year Ended December 31, 2017</b>	
	<b>Credit Reserve</b>	<b>Unamortized Discount, Net</b>	<b>Credit Reserve</b>	<b>Unamortized Discount, Net</b>
Beginning balance	\$ 46,549	\$ 183,753	\$ 47,473	\$ 198,112
Amortization of net discount	—	(14,098)	—	(18,795)
Realized credit losses	(2,165)	—	(4,187)	—
Acquisitions	6,315	2,716	9,118	13,080
Sales, calls, other	(1,850)	(28,739)	(3,404)	(12,106)
Impairments	89	—	1,011	—
Transfers to (release of) credit reserves, net	(7,568)	7,568	(3,462)	3,462
<b>Ending Balance</b>	<b>\$ 41,370</b>	<b>\$ 151,200</b>	<b>\$ 46,549</b>	<b>\$ 183,753</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 9. Real Estate Securities - (continued)**

***AFS Securities with Unrealized Losses***

The following table presents the components comprising the total carrying value of residential AFS securities that were in a gross unrealized loss position at December 31, 2018 and December 31, 2017.

**Table 9.6 – Components of Fair Value of Residential AFS Securities by Holding Periods**

(In Thousands)	Less Than 12 Consecutive Months			12 Consecutive Months or Longer		
	Amortized Cost	Unrealized Losses	Fair Value	Amortized Cost	Unrealized Losses	Fair Value
December 31, 2018	\$ 12,923	\$ (499)	\$ 12,424	\$ 7,464	\$ (49)	\$ 7,415
December 31, 2017	8,637	(132)	8,505	28,557	(1,235)	27,322

At December 31, 2018, after giving effect to purchases, sales, and extinguishment due to credit losses, our consolidated balance sheet included 128 AFS securities, of which seven were in an unrealized loss position and three were in a continuous unrealized loss position for 12 consecutive months or longer. At December 31, 2017, our consolidated balance sheet included 167 AFS securities, of which nine were in an unrealized loss position and three were in a continuous unrealized loss position for 12 consecutive months or longer.

***Evaluating AFS Securities for Other-than-Temporary Impairments***

Gross unrealized losses on our AFS securities were \$1 million at December 31, 2018. We evaluate all securities in an unrealized loss position to determine if the impairment is temporary or other-than-temporary (resulting in an OTTI). At December 31, 2018, we did not intend to sell any of our AFS securities that were in an unrealized loss position, and it is more likely than not that we will not be required to sell these securities before recovery of their amortized cost basis, which may be at their maturity. We review our AFS securities that are in an unrealized loss position to identify those securities with losses that are other-than-temporary based on an assessment of changes in expected cash flows for such securities, which considers recent security performance and expected future performance of the underlying collateral.

For the year ended December 31, 2018, other-than-temporary impairments related to our AFS securities were \$1 million, of which \$0.1 million were recognized through our consolidated statements of income and \$1 million were recognized in Accumulated other comprehensive income, a component of our consolidated balance sheet. AFS securities for which OTTI is recognized have experienced, or are expected to experience, credit-related adverse cash flow changes. In determining our estimate of cash flows for AFS securities we may consider factors such as structural credit enhancement, past and expected future performance of underlying mortgage loans, including timing of expected future cash flows, which are informed by prepayment rates, default rates, loss severities, delinquency rates, percentage of non-performing loans, FICO scores at loan origination, year of origination, loan-to-value ratios, and geographic concentrations, as well as general market assessments. Changes in our evaluation of these factors impacted the cash flows expected to be collected at the OTTI assessment date and were used to determine if there were credit-related adverse cash flows and if so, the amount of credit related losses. Significant judgment is used in both our analysis of the expected cash flows for our AFS securities and any determination of the credit loss component of OTTI.

The table below summarizes the significant valuation assumptions we used for our AFS securities in unrealized loss positions at December 31, 2018.

**Table 9.7 – Significant Valuation Assumptions**

December 31, 2018	Range for Securities
Prepayment rates	6% - 8%
Projected losses	0.20% - 1%

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 9. Real Estate Securities - (continued)**

The following table details the activity related to the credit loss component of OTTI (i.e., OTTI recognized through earnings) for AFS securities held at December 31, 2018, 2017, and 2016 for which a portion of an OTTI was recognized in other comprehensive income.

**Table 9.8 – Activity of the Credit Component of Other-than-Temporary Impairments**

<b>(In Thousands)</b>	<b>Years Ended December 31,</b>		
	<b>2018</b>	<b>2017</b>	<b>2016</b>
Balance at beginning of period	\$ 21,037	\$ 28,261	\$ 28,277
Additions			
Initial credit impairments	76	178	346
Subsequent credit impairments	—	47	8
Reductions			
Securities sold, or expected to sell	(1,218)	(4,898)	(261)
Securities with no outstanding principal at period end	(1,243)	(2,551)	(109)
<b>Balance at End of Period</b>	<b>\$ 18,652</b>	<b>\$ 21,037</b>	<b>\$ 28,261</b>

Gains and losses from the sale of AFS securities are recorded as Realized gains, net, in our consolidated statements of income. The following table presents the gross realized gains and losses on sales and calls of AFS securities for the years ended December 31, 2018, 2017, and 2016.

**Table 9.9 – Gross Realized Gains and Losses on AFS Securities**

<b>(In Thousands)</b>	<b>Years Ended December 31,</b>		
	<b>2018</b>	<b>2017</b>	<b>2016</b>
Gross realized gains - sales	\$ 27,127	\$ 13,927	\$ 23,598
Gross realized gains - calls	43	677	1,210
Gross realized losses - sales	(129)	—	(2,293)
Gross realized losses - calls	—	(497)	—
<b>Total Realized Gains on Sales and Calls of AFS Securities, net</b>	<b>\$ 27,041</b>	<b>\$ 14,107</b>	<b>\$ 22,515</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 10. Other Investments**

Other investments at December 31, 2018 and December 31, 2017 are summarized in the following table.

**Table 10.1 – Components of Other Investments**

(In Thousands)	December 31, 2018	December 31, 2017
Servicer advance investments	\$ 300,468	\$ —
Mortgage servicing rights	60,281	63,598
Participation in loan warehouse facility	39,703	—
Excess MSRs	27,312	—
Investment in 5 Arches	10,754	—
<b>Total Other Investments</b>	<b>\$ 438,518</b>	<b>\$ 63,598</b>

*Servicer advance investments*

In December 2018, we and a third-party co-investor, through two partnerships (“SA Buyers”) consolidated by us, purchased the outstanding servicer advances and excess MSRs related to a portfolio of legacy residential mortgage-backed securitizations serviced by the co-investor (See *Note 4* for additional information on the SA Buyers). At December 31, 2018, we had funded \$57 million of capital to the SA Buyers and expected to fund an additional \$36 million of capital under an outstanding commitment (see *Note 16* for additional detail).

Our servicer advance investments (owned by the consolidated SA Buyers) are comprised of outstanding servicer advance receivables, the requirement to purchase all future servicer advances made with respect to a specified pool of residential mortgage loans, and a portion of the mortgage servicing fees from the underlying loan pool. A portion of the remaining mortgage servicing fees from the underlying loan pool are paid directly to the third-party servicer for the performance of servicing duties and a portion is paid to the excess MSRs. We hold our servicer advance investments at our taxable REIT subsidiary.

Servicer advances are non-interest bearing and a customary feature of residential mortgage securitization transactions. Servicer advances are generally reimbursable cash payments made by a servicer when the borrower fails to make scheduled payments due on a residential mortgage loan or to support the value of the collateral property. Servicer advances typically fall into three categories:

- Principal and Interest Advances: cash payments made by the servicer to cover scheduled principal and interest payments on a residential mortgage loan that have not been paid on a timely basis by the borrower.
- Escrow Advances (Taxes and Insurance Advances): Cash payments made by the servicer to third parties on behalf of the borrower for real estate taxes and insurance premiums on the property that have not been paid on a timely basis by the borrower.
- Corporate Advances: Cash payments made by the servicer to third parties for the reimbursable costs and expenses incurred in connection with the foreclosure, preservation and sale of the mortgaged property, including attorneys’ and other professional fees.

Servicer advances are generally permitted to be repaid from amounts received with respect to the related residential mortgage loan, including payments from the borrower or amounts received from the liquidation of the property securing the loan. Residential mortgage servicing agreements generally require a servicer to make advances in respect of serviced residential mortgage loans unless the servicer determines in good faith that the advance would not be ultimately recoverable from the proceeds of the related residential mortgage loan or the mortgaged property.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 10. Other Investments - (continued)**

At December 31, 2018, our servicer advance investments had a carrying value of \$300 million and were associated with a portfolio of residential mortgage loans with an unpaid principal balance of \$8.05 billion. The outstanding servicer advance receivables associated with this investment were \$287 million at December 31, 2018, which were financed with short-term non-recourse securitization debt (see *Note 13* for additional detail on this debt). The \$287 million of servicer advance receivables were comprised of the following types of advances:

**Table 10.2 – Components of Servicer Advance Receivables**

(In Thousands)	December 31, 2018	December 31, 2017
Principal and interest advances	\$ 144,336	\$ —
Escrow advances (taxes and insurance advances)	94,828	—
Corporate advances	47,614	—
<b>Total Servicer Advance Receivables</b>	<b>\$ 286,778</b>	<b>\$ —</b>

We account for our servicer advance investments at fair value and during the three months ended December 31, 2018, we recorded \$1 million of interest income associated with these investments and recorded a net market valuation loss of \$1 million through Investment fair value changes, net in our consolidated statements of income.

*Mortgage Servicing Rights*

We invest in mortgage servicing rights associated with residential mortgage loans and contract with licensed sub-servicers to perform all servicing functions for these loans. The majority of our investments in MSR were made through the retention of servicing rights associated with the residential jumbo mortgage loans that we acquired and subsequently transferred to third parties. We hold our MSR investments at our taxable REIT subsidiary.

At December 31, 2018 and December 31, 2017, our MSRs had a fair value of \$60 million and \$64 million, respectively, and were associated with loans with an aggregate principal balance of \$4.93 billion and \$5.56 billion, respectively.

The following table presents activity for MSRs for the years ended December 31, 2018, 2017, and 2016.

**Table 10.3 – Activity for MSRs**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
Balance at beginning of period	\$ 63,598	\$ 118,526	\$ 191,976
Additions	328	8,026	25,362
Sales	(1,077)	(52,788)	(62,440)
Changes in fair value due to:			
Changes in assumptions <sup>(1)</sup>	4,434	(1,088)	(14,512)
Other changes <sup>(2)</sup>	(7,002)	(9,078)	(21,860)
<b>Balance at End of Period</b>	<b>\$ 60,281</b>	<b>\$ 63,598</b>	<b>\$ 118,526</b>

(1) Primarily reflects changes in prepayment assumptions due to changes in market interest rates.

(2) Represents changes due to the realization of expected cash flows.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 10. Other Investments - (continued)**

The following table presents the components of our MSR income for the years ended December 31, 2018, 2017, and 2016.

**Table 10.4 – Components of MSR Income, net**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
Servicing income	\$ 15,372	\$ 21,120	\$ 41,152
Cost of sub-servicer	(1,444)	(2,828)	(6,281)
Net servicing fee income	13,928	18,292	34,871
Market valuation changes of MSRs	(2,508)	(10,166)	(36,372)
Market valuation changes of associated derivatives <sup>(1)</sup>	(4,734)	(568)	15,584
MSR reversal of provision for repurchases	390	302	270
<b>MSR Income, Net</b>	<b>\$ 7,076</b>	<b>\$ 7,860</b>	<b>\$ 14,353</b>

(1) MSR income, net is included in Other income, net on our consolidated statements of income.

*Participation in Loan Warehouse Facility*

In the second quarter of 2018, we invested in a subordinated participation in a revolving mortgage loan warehouse credit facility of one of our loan sellers. While our interest is subordinated, it is secured by the loans collateralizing the facility and we have recourse to the loan seller. We account for this subordinated participation interest as a loan receivable at amortized cost, and all associated interest income is recorded as a component of Other interest income in our consolidated statements of income. We monitor the credit quality of the warehouse line of credit and utilize such information in our evaluation of the appropriateness of the allowance for credit losses. As of December 31, 2018, we determined no allowance for credit losses was required for this receivable.

*Excess MSRs*

In association with our servicer advance investments described above, in the fourth quarter of 2018, we (through our consolidated SA Buyers) also invested in excess MSRs associated with the same portfolio of legacy residential mortgage-backed securitizations. Additionally, in the fourth quarter of 2018, we invested in excess MSRs associated with a specified pool of multifamily loans. We account for our excess MSRs at fair value and during the three months ended December 31, 2018, we recognized \$1 million of interest income and recorded a net market valuation gain of \$2 million through Investment fair value changes, net on our consolidated statements of income.

*Investment in 5 Arches*

In May 2018, we acquired a 20% minority interest in 5 Arches for \$10 million, which included a one-year option to purchase all remaining equity in the company for a combination of cash and stock totaling \$40 million. 5 Arches is an originator and asset manager of business purpose residential mortgage loans, including loans to investors in single-family rental properties and bridge loans for investors in residential and multifamily properties. In connection with this investment, we also entered into a loan flow purchase agreement to purchase single-family rental loans from 5 Arches. See Note 7 for discussion on our business purpose residential loan portfolio and the loans we have acquired from 5 Arches. In January 2019, we exercised our option to acquire the remaining 80% interest in 5 Arches for a combination of cash and common stock totaling \$40 million. A portion of this remaining consideration is contingent upon 5 Arches achieving certain origination volumes over the next two years. This acquisition is expected to close in the first quarter of 2019, subject to customary closing conditions.

During 2018, we accounted for our minority ownership interest in 5 Arches using the equity method of accounting as we are able to exert significant influence over but do not control the activities of the investee. At December 31, 2018, the carrying amount of our investment in 5 Arches was \$7 million, and the carrying value of the purchase option was \$4 million. We have elected to record our share of earnings or losses from 5 Arches on a one-quarter lag. During the year ended December 31, 2018, we recorded \$0.6 million of gross income associated with this investment and, including amortization of certain intangible assets, recorded \$0.4 million of net earnings in Other income, net on our consolidated statements of income.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 11. Derivative Financial Instruments**

The following table presents the fair value and notional amount of our derivative financial instruments at December 31, 2018 and December 31, 2017.

*Table 11.1 – Fair Value and Notional Amount of Derivative Financial Instruments*

(In Thousands)	December 31, 2018		December 31, 2017	
	Fair Value	Notional Amount	Fair Value	Notional Amount
<b>Assets - Risk Management Derivatives</b>				
Interest rate swaps	\$ 28,211	\$ 2,106,500	\$ 10,122	\$ 1,765,000
TBAs	4,665	520,000	133	295,000
Futures	—	—	1	7,500
Swaptions	—	—	42	200,000
<b>Assets - Other Derivatives</b>				
Loan purchase commitments	2,913	331,161	3,243	547,434
Loan forward sale commitments	—	—	2,177	343,681
<b>Total Assets</b>	<u>\$ 35,789</u>	<u>\$ 2,957,661</u>	<u>\$ 15,718</u>	<u>\$ 3,158,615</u>
<b>Liabilities - Cash Flow Hedges</b>				
Interest rate swaps	\$ (34,492)	\$ 139,500	\$ (43,679)	\$ 139,500
<b>Liabilities - Risk Management Derivatives</b>				
Interest rate swaps	(36,416)	1,742,000	(11,888)	1,248,000
TBAs	(13,215)	935,000	(3,808)	1,400,000
<b>Liabilities - Other Derivatives</b>				
Loan purchase commitments	(732)	137,224	(3,706)	697,966
<b>Total Liabilities</b>	<u>\$ (84,855)</u>	<u>\$ 2,953,724</u>	<u>\$ (63,081)</u>	<u>\$ 3,485,466</u>
<b>Total Derivative Financial Instruments, Net</b>	<u>\$ (49,066)</u>	<u>\$ 5,911,385</u>	<u>\$ (47,363)</u>	<u>\$ 6,644,081</u>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 11. Derivative Financial Instruments - (continued)**

***Risk Management Derivatives***

To manage, to varying degrees, risks associated with certain assets and liabilities on our consolidated balance sheets, we may enter into derivative contracts. At December 31, 2018, we were party to swaps with an aggregate notional amount of \$3.85 billion and TBA agreements sold with an aggregate notional amount of \$1.46 billion. At December 31, 2017, we were party to swaps and swaptions with an aggregate notional amount of \$3.21 billion, TBA agreements sold with an aggregate notional amount of \$1.70 billion, and financial futures contracts with an aggregate notional amount of \$8 million.

For the years ended December 31, 2018, 2017, and 2016, risk management derivatives had a net market valuation gain of \$40 million, a net market valuation loss of \$31 million, and a net market valuation gain of \$10 million, respectively. These market valuation gains and losses are recorded in Mortgage banking activities, net, Investment fair value changes, net and Other income, net on our consolidated statements of income.

***Loan Purchase and Forward Sale Commitments***

LPCs and FSCs that qualify as derivatives are recorded at their estimated fair values. For the years ended December 31, 2018, 2017, and 2016, LPCs and FSCs had a net market valuation loss of \$1 million and net market valuation gains of \$38 million and \$26 million, respectively, that were recorded in Mortgage banking activities, net on our consolidated statements of income.

***Derivatives Designated as Cash Flow Hedges***

To manage the variability in interest expense related to portions of our long-term debt and certain adjustable-rate securitization entity liabilities that are included in our consolidated balance sheets for financial reporting purposes, we designated certain interest rate swaps as cash flow hedges with an aggregate notional balance of \$140 million.

For the years ended December 31, 2018, 2017, and 2016, changes in the values of designated cash flow hedges were positive \$9 million, positive \$1 million, and positive \$3 million, respectively, and were recorded in Accumulated other comprehensive income, a component of equity. For interest rate agreements currently or previously designated as cash flow hedges, our total unrealized loss reported in Accumulated other comprehensive income was \$34 million and \$43 million at December 31, 2018 and December 31, 2017, respectively.

The following table illustrates the impact on interest expense of our interest rate agreements accounted for as cash flow hedges for the years ended December 31, 2018, 2017, and 2016.

**Table 11.2 – Impact on Interest Expense of Interest Rate Agreements Accounted for as Cash Flow Hedges**

<b>(In Thousands)</b>	<b>Years Ended December 31,</b>		
	<b>2018</b>	<b>2017</b>	<b>2016</b>
Net interest expense on cash flows hedges	\$ (3,228)	\$ (4,602)	\$ (5,317)
Realized net losses reclassified from other comprehensive income	—	(45)	(72)
<b>Total Interest Expense</b>	<b>\$ (3,228)</b>	<b>\$ (4,647)</b>	<b>\$ (5,389)</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 11. Derivative Financial Instruments - (continued)**

***Derivative Counterparty Credit Risk***

We incur credit risk to the extent that counterparties to our derivative financial instruments do not perform their obligations under specified contractual agreements. If a derivative counterparty does not perform, we may not receive the proceeds to which we may be entitled under these agreements. Each of our derivative counterparties that is not a clearinghouse must maintain compliance with International Swaps and Derivatives Association ("ISDA") agreements or other similar agreements (or receive a waiver of non-compliance after a specific assessment) in order to conduct derivative transactions with us. Additionally, we review non-clearinghouse derivative counterparty credit standings, and in the case of a deterioration of creditworthiness, appropriate remedial action is taken. To further mitigate counterparty risk, we exit derivatives contracts with counterparties that (i) do not maintain compliance with (or obtain a waiver from) the terms of their ISDA or other agreements with us; or (ii) do not meet internally established guidelines regarding creditworthiness. Our ISDA and similar agreements currently require full bilateral collateralization of unrealized loss exposures with our derivative counterparties. Through a margin posting process, our positions are revalued with counterparties each business day and cash margin is generally transferred to either us or our derivative counterparties as collateral based upon the directional changes in fair value of the positions. We also attempt to transact with several different counterparties in order to reduce our specific counterparty exposure. With respect to certain of our derivatives, clearing and settlement is through one or more clearinghouses, which may be substituted as a counterparty. Clearing and settlement of derivative transactions through a clearinghouse is also intended to reduce specific counterparty exposure. We consider counterparty risk as part of our fair value assessments of all derivative financial instruments at each quarter-end. At December 31, 2018, we assessed this risk as remote and did not record a specific valuation adjustment.

At December 31, 2018, we had outstanding derivative agreements with two counterparties (other than clearinghouses) and were in compliance with ISDA agreements governing our open derivative positions.

**Note 12. Other Assets and Liabilities**

Other assets at December 31, 2018 and December 31, 2017 are summarized in the following table.

***Table 12.1 – Components of Other Assets***

<b>(In Thousands)</b>	<b>December 31, 2018</b>	<b>December 31, 2017</b>
Margin receivable	\$ 100,773	\$ 85,044
FHLBC stock	43,393	43,393
Pledged collateral	42,433	42,615
Investment receivable	6,959	1,147
Fixed assets and leasehold improvements <sup>(1)</sup>	5,106	2,645
REO	3,943	3,354
Other	15,218	16,768
<b>Total Other Assets</b>	<b>\$ 217,825</b>	<b>\$ 194,966</b>

(1) Fixed assets and leasehold improvements had a basis of \$10 million and accumulated depreciation of \$5 million at December 31, 2018.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 12. Other Assets and Liabilities - (continued)**

Accrued expenses and other liabilities at December 31, 2018 and December 31, 2017 are summarized in the following table.

**Table 12.2 – Components of Accrued Expenses and Other Liabilities**

(In Thousands)	December 31, 2018	December 31, 2017
Accrued compensation	\$ 19,769	\$ 24,025
Guarantee obligations	16,711	19,487
Payable to minority partner	14,331	—
Deferred tax liabilities	9,022	11,764
Residential loan and MSR repurchase reserve	4,189	4,916
Legal reserve	2,000	2,000
Unsettled trades	1,494	13
Margin payable	835	390
Accrued taxes payable	423	—
Other	9,945	5,134
<b>Total Accrued Expenses and Other Liabilities</b>	<b>\$ 78,719</b>	<b>\$ 67,729</b>

*Margin Receivable and Payable*

Margin receivable and payable resulted from margin calls between us and our counterparties under derivatives, master repurchase agreements, and warehouse facilities, whereby we or the counterparty posted collateral.

*FHLBC Stock*

In accordance with our FHLB-member subsidiary's borrowing agreement with the FHLBC, our subsidiary is required to purchase and hold stock in the FHLBC. See *Note 3* and *Note 15* for additional information on this borrowing agreement.

*Pledged Collateral and Guarantee Obligations*

The pledged collateral and guarantee obligations presented in the tables above are related to our risk-sharing arrangements with Fannie Mae and Freddie Mac. In accordance with these arrangements, we are required to pledge collateral to secure our guarantee obligations. See *Note 3* and *Note 16* for additional information on our risk-sharing arrangements.

*Investment Receivable*

At December 31, 2018, investment receivable primarily consisted of \$5 million of trade receivables related to real estate securities sales. In accordance with our policy to record purchases and sales of securities on the trade date, if the trade and settlement of a purchase or sale crosses over a quarterly reporting period, we will record an investment receivable for sales and an unsettled trades liability for purchases.

*REO*

The carrying value of REO at December 31, 2018, was \$4 million, which includes the net effect of \$4 million related to transfers into REO during the year ended December 31, 2018, offset by \$4 million of REO liquidations and \$0.5 million of unrealized gains resulting from market valuation adjustments. At December 31, 2018 and December 31, 2017, there were 13 and 14 REO properties, respectively, recorded on our consolidated balance sheets, all of which were owned at consolidated Legacy Sequoia entities.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 12. Other Assets and Liabilities - (continued)**

*Legal and Repurchase Reserves*

See *Note 16* for additional information on the legal and residential repurchase reserves.

*Payable to Minority Partner*

In December 2018, Redwood and a third-party co-investor, through two partnership entities consolidated by Redwood, purchased servicer advances and excess MSR related to a portfolio of residential mortgage loans serviced by the co-investor (see *Note 4* and *Note 10* for additional information on the partnership entities and associated investments). We account for the co-investor's interests in the entities as liabilities and at December 31, 2018, the carrying value of their interests was \$14 million, representing their current economic interest in the entities. Earnings from the partnership entities are allocated to the co-investors on a proportional basis and during the three months ended December 31, 2018, we allocated less than \$0.1 million of losses to the co-investors, which was recorded in Other income, net on our consolidated statements of income.

**Note 13. Short-Term Debt**

We enter into repurchase agreements, bank warehouse agreements, and other forms of collateralized (and generally uncommitted) short-term borrowings with several banks and major investment banking firms. At December 31, 2018, we had outstanding agreements with several counterparties and we were in compliance with all of the related covenants. For additional information about these financial covenants and our short-term debt, see Part II, Item 7 of this Annual Report on Form 10-K under the heading "*Risks Relating to Debt Incurred Under Short- and Long-Term Borrowing Facilities.*"

The table below summarizes our short-term debt, including the facilities that are available to us, the outstanding balances, the weighted average interest rate, and the maturity information at December 31, 2018 and December 31, 2017.

**Table 13.1 – Short-Term Debt**

(Dollars in Thousands)	December 31, 2018					
	Number of Facilities	Outstanding Balance	Limit	Weighted Average Interest Rate	Maturity	Weighted Average Days Until Maturity
<b>Facilities</b>						
Residential loan warehouse <sup>(1)</sup>	4	\$ 860,650	\$ 1,425,000	4.10%	2/2019-12/2019	178
Real estate securities repo <sup>(1)</sup>	9	988,890	—	3.47%	01/2019-03/2019	26
Single-family rental loan warehouse <sup>(2)</sup>	2	22,053	400,000	4.77%	6/2020-6/2021	560
Residential bridge loan warehouse <sup>(2)</sup>	2	66,327	80,000	5.20%	11/2019-04/2021	629
<b>Total Short-Term Debt Facilities</b>	17	1,937,920				
Servicer advance financing	1	262,740	350,000	4.32%	11/2019	333
Convertible notes, net	N/A	199,619	—	5.63%	11/2019	319
<b>Total Short-Term Debt</b>		<u>\$ 2,400,279</u>				

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 13. Short-Term Debt - (continued)**

<b>December 31, 2017</b>						
<b>(Dollars in Thousands)</b>	<b>Number of Facilities</b>	<b>Outstanding Balance</b>	<b>Limit</b>	<b>Weighted Average Interest Rate</b>	<b>Maturity</b>	<b>Weighted Average Days Until Maturity</b>
<b>Facilities</b>						
Residential loan warehouse <sup>(1)</sup>	4	\$ 1,039,666	\$ 1,575,000	3.17%	1/2018-12/2018	197
Real estate securities repo <sup>(1)</sup>	9	648,746	—	2.69%	1/2018-3/2018	28
<b>Total Short-Term Debt Facilities</b>	13	1,688,412				
Convertible notes, net	N/A	250,270	—	4.63%	4/2018	105
<b>Total Short-Term Debt</b>		<u>\$ 1,938,682</u>				

- (1) Borrowings under our facilities are generally charged interest based on a specified margin over the one-month LIBOR interest rate. At December 31, 2018, all of these borrowings were under uncommitted facilities and were due within 364 days (or less) of the borrowing date.
- (2) Due to the revolving nature of the borrowings under these facilities, we have classified these facilities as short-term debt at December 31, 2018. Borrowings under these facilities will be repaid as the underlying loans mature or are sold to third parties or transferred to securitizations.

Borrowings under our facilities are generally charged interest based on a specified margin over the one-month LIBOR interest rate. At December 31, 2018, all of these borrowings were under uncommitted facilities and were generally due within 364 days (or less) of the borrowing date.

The fair value of held-for-sale residential loans and real estate securities pledged as collateral was \$935 million and \$844 million, respectively, at December 31, 2018 and \$1.15 billion and \$788 million, respectively, at December 31, 2017. In addition, at December 31, 2018, the fair value of our real estate securities pledged as collateral included \$130 million of securities retained from our consolidated Sequoia Choice securitizations, as well as \$229 million and \$18 million of securities we owned that were issued by consolidated Freddie Mac SLST and Freddie Mac K-Series securitizations, respectively. At December 31, 2018, the fair value of single-family rental and residential bridge loans pledged as collateral under our warehouse facilities was \$28 million and \$98 million, respectively. For the years ended December 31, 2018 and 2017, the average balances of our short-term debt facilities were \$1.60 billion and \$1.08 billion, respectively. At December 31, 2018 and December 31, 2017, accrued interest payable on our short-term debt facilities was \$4 million and \$2 million, respectively.

Servicer advance financing consists of non-recourse short-term securitization debt used to finance servicer advance investments we made in the fourth quarter of 2018. We consolidate the securitization entity that issued the debt, but the entity is independent of Redwood and the assets and liabilities are not owned by and are not legal obligations of Redwood. At December 31, 2018, the fair value of servicer advances collateralizing the securitization financing was \$287 million. At December 31, 2018, the accrued interest payable balance on this financing was \$1 million and the unamortized capitalized commitment costs were \$3 million.

During the fourth quarter of 2018, \$201 million principal amount of 5.625% exchangeable senior notes and \$1 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt as the maturity of the notes was less than one year as of November 2018. At December 31, 2018, the accrued interest payable balance on this debt was \$1 million. See *Note 15* for additional information on our convertible notes.

During the second quarter of 2017, \$288 million principal amount of 4.625% convertible senior notes and \$2 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt, as the maturity of the notes was less than one year as of April 2017. Additionally, during the second quarter of 2017, we repurchased \$37 million par value of these notes at a premium and recorded a loss on extinguishment of debt of \$1 million in Realized gains, net on our consolidated statements of income. In April 2018, we repaid these \$250 million convertible notes and all related accrued interest in full.

We also maintain a \$10 million committed line of credit with a financial institution that is secured by certain mortgage-backed securities with a fair market value of \$4 million at December 31, 2018. At both December 31, 2018 and December 31, 2017, we had no outstanding borrowings on this facility.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 13. Short-Term Debt - (continued)**

***Remaining Maturities of Short-Term Debt***

The following table presents the remaining maturities of our secured short-term debt by the type of collateral securing the debt as well as our convertible notes at December 31, 2018.

***Table 13.2 – Short-Term Debt by Collateral Type and Remaining Maturities***

(In Thousands)	December 31, 2018			
	Within 30 days	31 to 90 days	Over 90 days	Total
<b>Collateral Type</b>				
Held-for sale residential loans	\$ —	\$ 458,955	\$ 401,695	\$ 860,650
Real estate securities	764,052	224,838	—	988,890
Single-family rental loans	—	—	22,053	22,053
Residential bridge loans	—	—	66,327	66,327
<b>Total Secured Short-Term Debt</b>	<b>764,052</b>	<b>683,793</b>	<b>490,075</b>	<b>1,937,920</b>
Servicer advance financing	—	—	262,740	262,740
Convertible notes, net	—	—	199,619	199,619
<b>Total Short-Term Debt</b>	<b>\$ 764,052</b>	<b>\$ 683,793</b>	<b>\$ 952,434</b>	<b>\$ 2,400,279</b>

**Note 14. Asset-Backed Securities Issued**

Through our Sequoia securitization program, we sponsor securitization transactions in which securities backed by residential mortgage loans (ABS) are issued by Sequoia entities. We consolidated the Legacy Sequoia and Sequoia Choice securitization entities, and beginning in 2018, certain third-party Freddie Mac K-Series and SLST securitization entities that we determined were VIEs and for which we determined we were the primary beneficiary. Each consolidated securitization entity is independent of Redwood and of each other and the assets and liabilities are not owned by and are not legal obligations of Redwood. Our exposure to these entities is primarily through the financial interests we have retained, although we are exposed to certain financial risks associated with our role as a sponsor, servicing administrator, or depositor of these entities or as a result of our having sold assets directly or indirectly to these entities.

We account for the ABS issued under our consolidated entities at fair value, with periodic changes in fair value recorded in Investment fair value changes, net on our consolidated statements of income. Pursuant to the CFE guidelines, the market valuation changes on our loans are based on the estimated fair value of the associated ABS issued. The net impact to our income statement associated with our retained economic investment in each of these securitization entities is presented in *Note 5*.

The ABS issued by these entities consist of various classes of securities that pay interest on a monthly basis. All ABS issued by the Sequoia Choice, Freddie Mac K-Series and Freddie Mac SLST entities pay fixed rates of interest and substantially all ABS issued by the Legacy Sequoia entities pay variable rates of interest, which are indexed to one-, three-, or six-month LIBOR. ABS issued also includes some interest-only classes with coupons set at a fixed spread to a benchmark rate, or set at a spread to the interest rates earned on the assets less the interest rates paid on the liabilities of a securitization entity.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 14. Asset-Backed Securities Issued - (continued)**

The carrying values of ABS issued by Sequoia securitization entities we sponsored at December 31, 2018 and December 31, 2017, along with other selected information, are summarized in the following table.

**Table 14.1 – Asset-Backed Securities Issued**

(Dollars in Thousands)	December 31, 2018				
	Legacy Sequoia	Sequoia Choice	Freddie Mac SLST	Freddie Mac K-Series	Total
Certificates with principal balance	\$ 540,456	\$ 1,838,758	\$ 993,659	\$ 1,936,691	\$ 5,309,564
Interest-only certificates	1,537	25,662	—	131,600	158,799
Market valuation adjustments	(29,753)	20,590	89	(49,216)	(58,290)
<b>ABS Issued, Net</b>	<b>\$ 512,240</b>	<b>\$ 1,885,010</b>	<b>\$ 993,748</b>	<b>\$ 2,019,075</b>	<b>\$ 5,410,073</b>
Range of weighted average interest rates, by series	1.36% to 3.60%	4.46% to 4.97%	3.51 %	3.39% to 4.08%	
Stated maturities	2024 - 2036	2047 - 2048	2028	2025 - 2049	
Number of series	20	6	1	3	

(Dollars in Thousands)	December 31, 2017				
	Legacy Sequoia	Sequoia Choice	Freddie Mac SLST	Freddie Mac K-Series	Total
Certificates with principal balance	\$ 691,125	\$ 526,657	\$ —	\$ —	\$ 1,217,782
Interest-only certificates	1,972	7,695	—	—	9,667
Market valuation adjustments	(70,652)	7,788	—	—	(62,864)
<b>ABS Issued, Net</b>	<b>\$ 622,445</b>	<b>\$ 542,140</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,164,585</b>
Range of weighted average interest rates, by series	1.46% to 2.78%	4.52% to 4.73%	—%	—%	
Stated maturities	2024 - 2036	2047	—	—	
Number of series	20	2	—	—	

The actual maturity of each class of ABS issued is primarily determined by the rate of principal prepayments on the assets of the issuing entity. Each series is also subject to redemption prior to the stated maturity according to the terms of the respective governing documents of each ABS issuing entity. As a result, the actual maturity of ABS issued may occur earlier than its stated maturity. At December 31, 2018, all of the ABS issued and outstanding had contractual maturities beyond five years. The following table summarizes the accrued interest payable on ABS issued at December 31, 2018 and December 31, 2017. Interest due on consolidated ABS issued is payable monthly.

**Table 14.2 – Accrued Interest Payable on Asset-Backed Securities Issued**

(In Thousands)	December 31, 2018	December 31, 2017
Legacy Sequoia	\$ 571	\$ 537
Sequoia Choice	7,180	2,031
Freddie Mac SLST	2,907	—
Freddie Mac K-Series	6,239	—
<b>Total Accrued Interest Payable on ABS Issued</b>	<b>\$ 16,897</b>	<b>\$ 2,568</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 14. Asset-Backed Securities Issued - (continued)**

The following table summarizes the carrying value components of the collateral for ABS issued and outstanding at December 31, 2018 and December 31, 2017.

**Table 14.3 – Collateral for Asset-Backed Securities Issued**

(In Thousands)	December 31, 2018				
	Legacy Sequoia	Sequoia Choice	Freddie Mac SLST	Freddie Mac K-Series	Total
Residential loans	\$ 519,958	\$ 2,079,382	\$ 1,222,669	\$ —	\$ 3,822,009
Multifamily loans	—	—	—	2,144,598	2,144,598
Restricted cash	146	1,022	—	—	1,168
Accrued interest receivable	822	8,988	3,926	6,595	20,331
REO	3,943	—	—	—	3,943
<b>Total Collateral for ABS Issued</b>	<b>\$ 524,869</b>	<b>\$ 2,089,392</b>	<b>\$ 1,226,595</b>	<b>\$ 2,151,193</b>	<b>\$ 5,992,049</b>

(In Thousands)	December 31, 2017				
	Legacy Sequoia	Sequoia Choice	Freddie Mac SLST	Freddie Mac K-Series	Total
Residential loans	\$ 632,817	\$ 620,062	\$ —	\$ —	\$ 1,252,879
Restricted cash	147	4	—	—	151
Accrued interest receivable	867	2,524	—	—	3,391
REO	3,353	—	—	—	3,353
<b>Total Collateral for ABS Issued</b>	<b>\$ 637,184</b>	<b>\$ 622,590</b>	<b>\$ —</b>	<b>\$ —</b>	<b>\$ 1,259,774</b>

**Note 15. Long-Term Debt**

**FHLBC Borrowings**

In July 2014, our FHLB-member subsidiary entered into a borrowing agreement with the Federal Home Loan Bank of Chicago. At December 31, 2018, under this agreement, our subsidiary could incur borrowings up to \$2.00 billion, also referred to as “advances,” from the FHLBC secured by eligible collateral, including residential mortgage loans. During the year ended December 31, 2018, we made no additional borrowings under this agreement. Under a final rule published by the Federal Housing Finance Agency in January 2016, our FHLB-member subsidiary will remain an FHLB member through the five-year transition period for captive insurance companies. Our FHLB-member subsidiary's existing \$2.00 billion of FHLB debt, which matures beyond this transition period, is permitted to remain outstanding until its stated maturity. As residential loans pledged as collateral for this debt pay down, we are permitted to pledge additional loans or other eligible assets to collateralize this debt; however, we do not expect to be able to increase our subsidiary's FHLB debt above the existing \$2.00 billion maximum.

At December 31, 2018, \$2.00 billion of advances were outstanding under this agreement, which were classified as long-term debt, with a weighted average interest rate of 2.52% and a weighted average maturity of approximately seven years. At December 31, 2017, \$2.00 billion of advances were outstanding under this agreement, which were classified as long-term debt, with a weighted average interest rate of 1.38% and a weighted average maturity of eight years. Advances under this agreement incur interest charges based on a specified margin over the FHLBC's 13-week discount note rate, which resets every 13 weeks. At December 31, 2018, total advances under this agreement were secured by residential mortgage loans with a fair value of \$2.38 billion. This agreement also requires our subsidiary to purchase and hold stock in the FHLBC in an amount equal to a specified percentage of outstanding advances. At December 31, 2018, our subsidiary held \$43 million of FHLBC stock that is included in Other assets in our consolidated balance sheets.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 15. Long-Term Debt - (continued)**

The following table presents maturities of our FHLBC borrowings by year at December 31, 2018.

**Table 15.1 – Maturities of FHLBC Borrowings by Year**

(In Thousands)	December 31, 2018
2024	\$ 470,171
2025	887,639
2026	642,189
<b>Total FHLBC Borrowings</b>	<b>\$ 1,999,999</b>

For additional information about our FHLBC borrowings, see Part II, Item 7 of this Annual Report on Form 10-K under the heading *Risks Relating to Debt Incurred under Short- and Long-Term Borrowing Facilities.*

**Convertible Notes**

In June 2018, we issued \$200 million principal amount of 5.625% convertible senior notes due 2024 at an issuance price of 99.5%. These convertible notes require semi-annual interest payments at a fixed coupon rate of 5.625% until maturity or conversion, which will be no later than July 15, 2024. After deducting the issuance discount, the underwriting discount and offering costs, we received \$194 million of net proceeds. Including amortization of deferred debt issuance costs and the debt discount, the weighted average interest expense yield on these convertible notes is approximately 6.2% per annum. These notes are convertible at the option of the holder at a conversion rate of 54.7645 common shares per \$1,000 principal amount of convertible senior notes (equivalent to a conversion price of \$18.26 per common share). Upon conversion of these notes by a holder, the holder will receive shares of our common stock. At December 31, 2018, the outstanding principal amount of these notes was \$200 million and the accrued interest payable on this debt was \$6 million. At December 31, 2018, the unamortized deferred issuance costs and debt discount were \$5 million and \$1 million, respectively.

In August 2017, we issued \$245 million principal amount of 4.75% convertible senior notes due 2023. These convertible notes require semi-annual interest payments at a fixed coupon rate of 4.75% until maturity or conversion, which will be no later than August 15, 2023. After deducting the underwriting discount and offering costs, we received \$238 million of net proceeds. Including amortization of deferred debt issuance costs, the weighted average interest expense yield on these convertible notes is approximately 5.3% per annum. At December 31, 2018, these notes were convertible at the option of the holder at a conversion rate of 53.9060 common shares per \$1,000 principal amount of convertible senior notes (equivalent to a conversion price of \$18.55 per common share). Upon conversion of these notes by a holder, the holder will receive shares of our common stock. At December 31, 2018, the outstanding principal amount of these notes was \$245 million. At December 31, 2018, the accrued interest payable balance on this debt was \$4 million and the unamortized deferred issuance costs were \$6 million.

In November 2014, RWT Holdings, Inc., a wholly-owned subsidiary of Redwood Trust, Inc., issued \$205 million principal amount of 5.625% exchangeable senior notes due 2019. These exchangeable notes require semi-annual interest payments at a fixed coupon rate of 5.625% until maturity or exchange, which will be no later than November 15, 2019. After deducting the underwriting discount and offering costs, we received \$198 million of net proceeds. Including amortization of deferred debt issuance costs, the weighted average interest expense yield on these exchangeable notes is approximately 6.3% per annum. At December 31, 2018, these notes were exchangeable at the option of the holder at an exchange rate of 46.2370 common shares per \$1,000 principal amount of exchangeable senior notes (equivalent to an exchange price of \$21.63 per common share). Upon exchange of these notes by a holder, the holder will receive shares of our common stock. During 2016, we repurchased \$4 million par value of these notes at a discount and recorded a gain on extinguishment of debt of \$0.3 million in Realized gains, net on our consolidated statements of income. Additionally, during the fourth quarter of 2018, \$201 million principal amount of these notes and \$1 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt as the maturity of the notes was less than one year as of November 2018. At December 31, 2018, the outstanding principal amount of these notes was \$201 million. At December 31, 2018, the accrued interest payable balance on this debt was \$1 million and the unamortized deferred issuance costs were \$1 million.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 15. Long-Term Debt - (continued)**

In March 2013, we issued \$288 million principal amount of 4.625% convertible senior notes due in April 2018. These convertible notes required semi-annual interest payments at a fixed coupon rate of 4.625% until the debt matured on April 15, 2018. After deducting the underwriting discount and offering costs, we received \$279 million of net proceeds. Including amortization of deferred debt issuance costs, the weighted average interest expense yield on these convertible notes was approximately 4.8% per annum. Until maturity, these notes were convertible at the option of the holder at a conversion rate of 41.1320 common shares per \$1,000 principal amount of convertible senior notes (equivalent to a conversion price of \$24.31 per common share). During 2017, \$288 million principal amount of these convertible notes and \$2 million of unamortized deferred issuance costs were reclassified from long-term debt to short-term debt, as the maturity of the notes was less than one year as of April 2017. Additionally, during 2017, we repurchased \$37 million par value of these notes at a premium and recorded a loss on extinguishment of debt of \$1 million in Realized gains, net on our consolidated statements of income. In April 2018, we repaid these \$250 million convertible notes and all related accrued interest in full.

***Trust Preferred Securities and Subordinated Notes***

At December 31, 2018, we had trust preferred securities and subordinated notes outstanding of \$100 million and \$40 million, respectively. This debt requires quarterly interest payments at a floating rate equal to three-month LIBOR plus 2.25% until the notes are redeemed. The \$100 million trust preferred securities will be redeemed no later than January 30, 2037, and the \$40 million subordinated notes will be redeemed no later than July 30, 2037. Prior to 2014, we entered into interest rate swaps with aggregate notional values totaling \$140 million to hedge the variability in this long-term debt interest expense. Including hedging costs and amortization of deferred debt issuance costs, the weighted average interest expense yield on our trust preferred securities and subordinated notes is approximately 6.9% per annum. At both December 31, 2018 and December 31, 2017, the accrued interest payable balance on our trust preferred securities and subordinated notes was \$1 million.

Under the terms of this debt, we covenant, among other things, to use our best efforts to continue to qualify as a REIT. If an event of default were to occur in respect of this debt, we would generally be restricted under its terms (subject to certain exceptions) from making dividend distributions to stockholders, from repurchasing common stock or repurchasing or redeeming any other then-outstanding equity securities, and from making any other payments in respect of any equity interests in us or in respect of any then-outstanding debt that is pari passu or subordinate to this debt.

**Note 16. Commitments and Contingencies**

***Lease Commitments***

At December 31, 2018, we were obligated under four non-cancelable operating leases with expiration dates through 2028 for \$16 million of cumulative lease payments. Our operating lease expense was \$2 million, \$2 million, and \$3 million for the years ended December 31, 2018, 2017 and 2016, respectively.

The following table presents our future lease commitments at December 31, 2018.

**Table 16.1 – Future Lease Commitments by Year**

(In Thousands)	December 31, 2018
2019	\$ 2,002
2020	1,966
2021	1,474
2022 and thereafter	10,217
<b>Total Lease Commitments</b>	<b>\$ 15,659</b>

Leasehold improvements for our offices are amortized into expense over the lease term. There were \$3 million of unamortized leasehold improvements at December 31, 2018. For each of the years ended December 31, 2018, 2017, and 2016, we recognized less than \$0.2 million of leasehold amortization expense.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 16. Commitments and Contingencies - (continued)**

***Commitment to Fund Partnerships***

In the fourth quarter of 2018, we invested in two partnerships created to acquire and manage certain mortgage servicing related assets (see *Note 10* for additional detail). At December 31, 2018, we had an outstanding commitment to fund an additional \$36 million to these partnerships to acquire additional outstanding servicer advances and excess MSR. As of February 28, 2019, we had funded \$7 million of this commitment and expect to fund the remainder before the end of June 2019. In connection with this investment, we are also required to fund future net servicer advances related to the underlying mortgage loans. The actual amount of net servicer advances we may fund in the future is subject to significant uncertainty and will be based on the credit and prepayment performance of the underlying loans.

***Commitment to Participate in Loan Warehouse Facility***

In the second quarter of 2018, we invested in a participation in the mortgage loan warehouse credit facility of one of our loan sellers. This investment includes a commitment to participate in (and an obligation to fund) a designated amount of the loan seller's borrowings under this warehouse credit facility. This obligation is subject to daily funding requests by the financial institution, and fundings are recorded on our balance sheet as a Participation in loan warehouse facility. At December 31, 2018, \$40 million of our commitment had been funded, and, assuming future borrowings under this facility are collateralized by mortgage loans with characteristics consistent with those collateralizing the facility at December 31, 2018, we were committed to fund up to an additional \$22 million. See *Note 10* for additional detail on our participation in a loan warehouse facility.

***Loss Contingencies — Risk-Sharing***

During 2015 and 2016, we sold conforming loans to the Agencies with an original unpaid principal balance of \$3.19 billion, subject to our risk-sharing arrangements with the Agencies. At December 31, 2018, the maximum potential amount of future payments we could be required to make under these arrangements was \$44 million and this amount was fully collateralized by assets we transferred to pledged accounts and is presented as pledged collateral in Other assets on our consolidated balance sheets. We have no recourse to any third parties that would allow us to recover any amounts related to our obligations under the arrangements. At December 31, 2018, we had not incurred any losses under these arrangements. For the years ended December 31, 2018, 2017, and 2016, other income related to these arrangements was \$4 million, \$3 million, and \$5 million, respectively, and was included in Other income, net on our consolidated statements of income. For the years ended December 31, 2018, 2017, and 2016, we recorded net market valuation losses related to these arrangements of \$0.4 million, \$1 million, and \$1 million, respectively, through Investment fair value changes, net, on our consolidated statements of income.

All of the loans in the reference pools subject to these risk-sharing arrangements were originated in 2014 and 2015, and at December 31, 2018, the loans had an unpaid principal balance of \$1.84 billion and a weighted average FICO score of 759 (at origination) and LTV ratio of 76% (at origination). At December 31, 2018, \$7 million of the loans were 90 days or more delinquent, of which \$1 million were in foreclosure. At December 31, 2018, the carrying value of our guarantee obligation was \$17 million and included \$5 million designated as a non-amortizing credit reserve, which we believe is sufficient to cover current expected losses under these obligations.

Our consolidated balance sheets include assets of special purpose entities ("SPEs") associated with these risk-sharing arrangements (i.e., the "pledged collateral" referred to above) that can only be used to settle obligations of these SPEs for which the creditors of these SPEs (the Agencies) do not have recourse to Redwood Trust, Inc. or its affiliates. At December 31, 2018 and December 31, 2017, assets of such SPEs totaled \$47 million and \$48 million, respectively, and liabilities of such SPEs totaled \$17 million and \$19 million, respectively.

***Loss Contingencies — Residential Repurchase Reserve***

We maintain a repurchase reserve for potential obligations arising from representation and warranty violations related to residential loans we have sold to securitization trusts or third parties and for conforming residential loans associated with MSR that we have purchased from third parties. We do not originate residential loans and we believe the initial risk of loss due to loan repurchases (i.e., due to a breach of representations and warranties) would generally be a contingency to the companies from whom we acquired the loans. However, in some cases, for example, where loans were acquired from companies that have since become insolvent, repurchase claims may result in our being liable for a repurchase obligation.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 16. Commitments and Contingencies - (continued)**

At December 31, 2018 and December 31, 2017, our repurchase reserve associated with our residential loans and MSRs was \$4 million and \$5 million, respectively, and was recorded in Accrued expenses and other liabilities on our consolidated balance sheets. We received 11 repurchase requests during the year ended December 31, 2018 and 17 during the year ended December 31, 2017. During the years ended December 31, 2018, 2017, and 2016, we repurchased two loans, one loan, and one loan, respectively. During the years ended December 31, 2018, 2017, and 2016, we recorded \$0.7 million, \$0.3 million, and \$1 million of reversals of repurchase provisions, respectively, that were recorded in Mortgage banking activities, net and Other income, net on our consolidated statements of income and had charge-offs of zero, \$0.2 million, and \$0.1 million, respectively.

***Loss Contingencies — Litigation***

On or about December 23, 2009, the Federal Home Loan Bank of Seattle (the “FHLB-Seattle”) filed a complaint in the Superior Court for the State of Washington (case number 09-2-46348-4 SEA) against Redwood Trust, Inc., our subsidiary, Sequoia Residential Funding, Inc. (“SRF”), Morgan Stanley & Co., and Morgan Stanley Capital I, Inc. (collectively, the “FHLB-Seattle Defendants”), which alleged that the FHLB-Seattle Defendants made false or misleading statements in offering materials for a mortgage pass-through certificate (the “Seattle Certificate”) issued in the Sequoia Mortgage Trust 2005-4 securitization transaction (the “2005-4 RMBS”) and purchased by the FHLB-Seattle. Specifically, the complaint alleged that the alleged misstatements concerned the (1) loan-to-value ratio of mortgage loans and the appraisals of the properties that secured loans supporting the 2005-4 RMBS, (2) occupancy status of the properties, (3) standards used to underwrite the loans, and (4) ratings assigned to the Seattle Certificate. The FHLB-Seattle alleged claims under the Securities Act of Washington (Section 21.20.005, et seq.) and sought to rescind the purchase of the Seattle Certificate and to collect interest on the original purchase price at the statutory interest rate of 8% per annum from the date of original purchase (net of interest received) as well as attorneys’ fees and costs. The Seattle Certificate was issued with an original principal amount of approximately \$133 million, and, at December 31, 2018, approximately \$126 million of principal and \$12 million of interest payments had been made in respect of the Seattle Certificate. The matter was subsequently resolved and the claims were dismissed by the FHLB Seattle as to all the FHLB Seattle Defendants. At the time the Seattle Certificate was issued, Redwood agreed to indemnify the underwriters of the 2005-4 RMBS, which underwriters were named as defendants in the action, for certain losses and expenses they might incur as a result of claims made against them relating to this RMBS, including, without limitation, certain legal expenses. Regardless of the resolution of this litigation, we could incur a loss as a result of these indemnities.

On or about July 15, 2010, The Charles Schwab Corporation (“Schwab”) filed a complaint in the Superior Court for the State of California in San Francisco (case number CGC-10-501610) against SRF and 26 other defendants (collectively, the “Schwab Defendants”), which alleged that the Schwab Defendants made false or misleading statements in offering materials for various residential mortgage-backed securities sold or issued by the Schwab Defendants. Schwab alleged only a claim for negligent misrepresentation under California state law against SRF and sought unspecified damages and attorneys’ fees and costs from SRF. Schwab claimed that SRF made false or misleading statements in offering materials for a mortgage pass-through certificate (the “Schwab Certificate”) issued in the 2005-4 RMBS and purchased by Schwab. Specifically, the complaint alleged that the misstatements for the 2005-4 RMBS concerned the (1) loan-to-value ratio of mortgage loans and the appraisals of the properties that secured loans supporting the 2005-4 RMBS, (2) occupancy status of the properties, (3) standards used to underwrite the loans, and (4) ratings assigned to the Schwab Certificate. The Schwab Certificate was issued with an original principal amount of approximately \$15 million, and, at December 31, 2018, approximately \$14 million of principal and \$1 million of interest payments had been made in respect of the Schwab Certificate. On November 14, 2014, Schwab voluntarily dismissed with prejudice its negligent misrepresentation claim, which resulted in the dismissal with prejudice of SRF from the action. Subsequently, the matter was resolved and Schwab dismissed its claims against the lead underwriter of the 2005-4 RMBS. At the time the Schwab Certificate was issued, Redwood agreed to indemnify the underwriters of the 2005-4 RMBS, which underwriters were also named as defendants in the action, for certain losses and expenses they might incur as a result of claims made against them relating to this RMBS, including, without limitation, certain legal expenses. Regardless of the resolution of this litigation, Redwood could incur a loss as a result of these indemnities.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 16. Commitments and Contingencies - (continued)**

Through certain of our wholly-owned subsidiaries, we have in the past engaged in, and expect to continue to engage in, activities relating to the acquisition and securitization of residential mortgage loans. In addition, certain of our wholly-owned subsidiaries have in the past engaged in activities relating to the acquisition and securitization of debt obligations and other assets through the issuance of collateralized debt obligations (commonly referred to as CDO transactions). Because of this involvement in the securitization and CDO businesses, we could become the subject of litigation relating to these businesses, including additional litigation of the type described above, and we could also become the subject of governmental investigations, enforcement actions, or lawsuits, and governmental authorities could allege that we violated applicable law or regulation in the conduct of our business. As an example, in July 2016 we became aware of a complaint filed by the State of California on April 1, 2016 against Morgan Stanley & Co. and certain of its affiliates alleging, among other things, that there were misleading statements contained in offering materials for 28 different mortgage pass-through certificates purchased by various California investors, including various California public pension systems, from Morgan Stanley and alleging that Morgan Stanley made false or fraudulent claims in connection with the sale of those certificates. Of the 28 mortgage pass-through certificates that were the subject of the complaint, two were Sequoia mortgage pass-through certificates issued in 2004 and two were Sequoia mortgage pass-through certificates issued in 2007. With respect to each of those certificates, our wholly-owned subsidiary, RWT Holdings, Inc., was the sponsor and our wholly-owned subsidiary, Sequoia Residential Funding, Inc., was the depositor. The plaintiffs subsequently withdrew from the litigation their claims based on eight of the 28 mortgage pass-through certificates, including one of the Sequoia mortgage pass-through certificates issued in 2004. At the time these Sequoia mortgage pass-through certificates were issued, Sequoia Residential Funding, Inc. and Redwood Trust agreed to indemnify the underwriters of these certificates for certain losses and expenses they might incur as a result of claims made against them relating to these certificates, including, without limitation, certain legal expenses. Regardless of the outcome of this litigation, we could incur a loss as a result of these indemnities.

In accordance with GAAP, we review the need for any loss contingency reserves and establish reserves when, in the opinion of management, it is probable that a matter would result in a liability and the amount of loss, if any, can be reasonably estimated. Additionally, we record receivables for insurance recoveries relating to litigation-related losses and expenses if and when such amounts are covered by insurance and recovery of such losses or expenses are due. At December 31, 2018, the aggregate amount of loss contingency reserves established in respect of the FHLB-Seattle and Schwab litigation matters described above was \$2 million. We review our litigation matters each quarter to assess these loss contingency reserves and make adjustments in these reserves, upwards or downwards, as appropriate, in accordance with GAAP based on our review.

In the ordinary course of any litigation matter, including certain of the above-referenced matters, we have engaged and may continue to engage in formal or informal settlement communications with the plaintiffs or co-defendants. Settlement communications we have engaged in relating to certain of the above-referenced litigation matters are one of the factors that have resulted in our determination to establish the loss contingency reserves described above. We cannot be certain that any of these matters will be resolved through a settlement prior to trial and we cannot be certain that the resolution of these matters, whether through trial or settlement, will not have a material adverse effect on our financial condition or results of operations in any future period.

Future developments (including resolution of substantive pre-trial motions relating to these matters, receipt of additional information and documents relating to these matters (such as through pre-trial discovery), new or additional settlement communications with plaintiffs relating to these matters, or resolutions of similar claims against other defendants in these matters) could result in our concluding in the future to establish additional loss contingency reserves or to disclose an estimate of reasonably possible losses in excess of our established reserves with respect to these matters. Our actual losses with respect to the above-referenced litigation matters may be materially higher than the aggregate amount of loss contingency reserves we have established in respect of these litigation matters, including in the event that any of these matters proceeds to trial and the plaintiff prevails. Other factors that could result in our concluding to establish additional loss contingency reserves or estimate additional reasonably possible losses, or could result in our actual losses with respect to the above-referenced litigation matters being materially higher than the aggregate amount of loss contingency reserves we have established in respect of these litigation matters include that: there are significant factual and legal issues to be resolved; information obtained or rulings made during the lawsuits could affect the methodology for calculation of the available remedies; and we may have additional obligations pursuant to indemnity agreements, representations and warranties, and other contractual provisions with other parties relating to these litigation matters that could increase our potential losses.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 17. Equity**

The following table provides a summary of changes to accumulated other comprehensive income by component for the years ended December 31, 2018 and 2017.

**Table 17.1 – Changes in Accumulated Other Comprehensive Income by Component**

(In Thousands)	Years Ended December 31,			
	2018		2017	
	Net Unrealized Gains on Available-for-Sale Securities	Net Unrealized Losses on Interest Rate Agreements Accounted for as Cash Flow Hedges	Net Unrealized Gains on Available-for-Sale Securities	Net Unrealized Losses on Interest Rate Agreements Accounted for as Cash Flow Hedges
Balance at beginning of period	\$ 128,201	\$ (42,953)	\$ 115,873	\$ (44,020)
Other comprehensive income (loss) before reclassifications	(7,298)	8,908	22,864	1,022
Amounts reclassified from other accumulated comprehensive income <sup>(1)</sup>	(25,561)	—	(10,536)	45
Net current-period other comprehensive income (loss)	(32,859)	8,908	12,328	1,067
<b>Balance at End of Period</b>	<b>\$ 95,342</b>	<b>\$ (34,045)</b>	<b>\$ 128,201</b>	<b>\$ (42,953)</b>

(1) Amount is presented net of tax provision of \$2 million for the year ended December 31, 2018.

The following table provides a summary of reclassifications out of accumulated other comprehensive income for the years ended December 31, 2018 and 2017.

**Table 17.2 – Reclassifications Out of Accumulated Other Comprehensive Income**

(In Thousands)	Affected Line Item in the Income Statement	Amount Reclassified From Accumulated Other Comprehensive Income	
		Years Ended December 31,	
		2018	2017
<b>Net Realized (Gain) Loss on AFS Securities</b>			
Other than temporary impairment <sup>(1)</sup>	Investment fair value changes, net	\$ 89	\$ 1,012
Gain on sale of AFS securities	Realized gains, net	(27,178 )	(11,548 )
Gain on sale of AFS securities	Provision for income taxes	1,528	—
		<u>\$ (25,561 )</u>	<u>\$ (10,536 )</u>
<b>Net Realized Loss on Interest Rate Agreements Designated as Cash Flow Hedges</b>			
Amortization of deferred loss	Interest expense	\$ —	\$ 45
		\$ —	\$ 45

(1) For the year ended December 31, 2018, other-than-temporary impairments were \$1 million, of which \$0.1 million were recognized through our consolidated statements of income and \$1 million were recognized in Accumulated other comprehensive income, a component of our consolidated balance sheet. For the year ended December 31, 2017, other-than-temporary impairments were \$1 million, of which \$1 million were recognized through our consolidated statements of income, and \$0.4 million were recognized in Accumulated other comprehensive income, a component of our consolidated balance sheet.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 17. Equity - (continued)**

***Issuance of Common Stock***

During the year ended December 31, 2018, we issued 7,187,500 shares of common stock in an underwritten public offering for net proceeds of \$117 million.

Additionally, in the fourth quarter of 2018, we established a program to sell up to an aggregate of \$150 million of common stock from time to time in at-the-market ("ATM") offerings. During the fourth quarter of 2018, we issued 1,550,819 common shares for net proceeds of approximately \$25 million through ATM offerings. At December 31, 2018, approximately \$125 million remained outstanding for future offerings under this program.

***Earnings per Common Share***

The following table provides the basic and diluted earnings per common share computations for the years ended December 31, 2018, 2017, and 2016.

**Table 17.3 – Basic and Diluted Earnings per Common Share**

(In Thousands, except Share Data)	Years Ended December 31,		
	2018	2017	2016
<b>Basic Earnings per Common Share:</b>			
Net income attributable to Redwood	\$ 119,600	\$ 140,406	\$ 131,252
Less: Dividends and undistributed earnings allocated to participating securities	(3,754)	(3,632)	(3,742)
Net income allocated to common shareholders	\$ 115,846	\$ 136,774	\$ 127,510
Basic weighted average common shares outstanding	78,724,912	76,792,957	76,747,047
<b>Basic Earnings per Common Share</b>	\$ 1.47	\$ 1.78	\$ 1.66
<b>Diluted Earnings per Common Share:</b>			
Net income attributable to Redwood	\$ 119,600	\$ 140,406	\$ 131,252
Less: Dividends and undistributed earnings allocated to participating securities	(4,283)	(3,836)	(4,035)
Add back: Interest expense on convertible notes for the period, net of tax	32,653	26,898	23,862
Net income allocated to common shareholders	\$ 147,970	\$ 163,468	\$ 151,079
Weighted average common shares outstanding	78,724,912	76,792,957	76,747,047
Net effect of dilutive equity awards	189,120	185,383	28,435
Net effect of assumed convertible notes conversion to common shares	31,113,738	24,996,668	21,133,608
Diluted weighted average common shares outstanding	110,027,770	101,975,008	97,909,090
<b>Diluted Earnings per Common Share</b>	\$ 1.34	\$ 1.60	\$ 1.54

We included participating securities, which are certain equity awards that have non-forfeitable dividend participation rights, in the calculations of basic and diluted earnings per common share as we determined that the two-class method was more dilutive than the alternative treasury stock method for these shares. Dividends and undistributed earnings allocated to participating securities under the basic and diluted earnings per share calculations require specific shares to be included that may differ in certain circumstances.

During the year ended December 31, 2018, certain of our convertible notes were determined to be dilutive and were included in the calculation of diluted EPS under the "if-converted" method. Under this method, the periodic interest expense (net of applicable taxes) for dilutive notes is added back to the numerator and the weighted average number of shares that the notes are entitled to (if converted, regardless of whether they are in or out of the money) are included in the denominator.

For the years ended December 31, 2018, 2017, and 2016, no common shares related to the assumed conversion of our convertible notes were antidilutive and excluded from the calculation of diluted earnings per share.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 17. Equity - (continued)**

For the years ended December 31, 2018, 2017, and 2016, the number of outstanding equity awards that were antidilutive totaled 7,230, 5,843, and zero, respectively.

**Stock Repurchases**

In February 2016, our Board of Directors approved an authorization for the repurchase of up to \$100 million of our common stock and also authorized the repurchase of outstanding debt securities, including convertible and exchangeable debt. This authorization replaced all previous share repurchase plans and has no expiration date. During the year ended December 31, 2017, we repurchased 610,342 shares of common stock pursuant to this authorization for \$9 million. At December 31, 2017, approximately \$77 million of this current authorization remained available for the repurchase of shares of our common stock. During January 2018, we repurchased 1,040,829 shares of our common stock pursuant to this authorization for \$16 million.

In February 2018, our Board of Directors approved an authorization for the repurchase of an additional \$39 million of our common stock, increasing the total amount authorized for repurchases of common stock to \$100 million, and also authorized the repurchase of outstanding debt securities, including convertible and exchangeable debt. As noted above, this authorization increased the previous share repurchase authorization approved in February 2016 and has no expiration date. This repurchase authorization does not obligate us to acquire any specific number of shares or securities. Under this authorization, shares or securities may be repurchased in privately negotiated and/or open market transactions, including under plans complying with Rule 10b5-1 under the Securities Exchange Act of 1934, as amended. At December 31, 2018, \$100 million of the current total authorization remained available for the repurchase of shares of our common stock.

**Note 18. Equity Compensation Plans**

At December 31, 2018 and December 31, 2017, 4,616,776 and 1,356,438 shares of common stock, respectively, were available for grant under our Incentive Plan. During the second quarter of 2018, Redwood shareholders approved for grant an additional 4,000,000 shares of common stock under our Incentive Plan. The unamortized compensation cost of awards issued under the Incentive Plan and purchases under the Employee Stock Purchase Plan totaled \$25 million at December 31, 2018, as shown in the following table.

**Table 18.1 – Activities of Equity Compensation Costs by Award Type**

(In Thousands)	Year Ended December 31, 2018				
	Restricted Stock	Deferred Stock Units	Performance Stock Units	Employee Stock Purchase Plan	Total
Unrecognized compensation cost at beginning of period	\$ 2,808	\$ 13,364	\$ 5,298	\$ —	\$ 21,470
Equity grants	2,566	9,050	4,400	136	16,152
Equity grant forfeitures	(112)	—	—	—	(112)
Equity compensation expense	(1,690)	(7,925)	(2,637)	(136)	(12,388)
<b>Unrecognized Compensation Cost at End of Period</b>	<b>\$ 3,572</b>	<b>\$ 14,489</b>	<b>\$ 7,061</b>	<b>\$ —</b>	<b>\$ 25,122</b>

At December 31, 2018, the weighted average amortization period remaining for all of our equity awards was less than two years.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 18. Equity Compensation Plans - (continued)**

***Restricted Stock Awards***

The following table summarizes the activities related to restricted stock for the years ended December 31, 2018, 2017, and 2016.

**Table 18.2 – Restricted Stock Awards Activities**

	Years Ended December 31,					
	2018		2017		2016	
	Shares	Weighted Average Grant Date Fair Market Value	Shares	Weighted Average Grant Date Fair Market Value	Shares	Weighted Average Grant Date Fair Market Value
Outstanding at beginning of period	257,507	\$ 15.23	204,515	\$ 14.27	187,180	\$ 18.22
Granted	173,413	14.73	134,364	16.52	144,056	11.89
Vested	(83,968)	15.46	(61,928)	14.97	(50,107)	17.28
Forfeited	(7,470)	15.05	(19,444)	14.78	(76,614)	18.01
<b>Outstanding at End of Period</b>	<b>339,482</b>	<b>\$ 14.92</b>	<b>257,507</b>	<b>\$ 15.23</b>	<b>204,515</b>	<b>\$ 14.27</b>

The expenses recorded for restricted stock awards were \$2 million for the year ended December 31, 2018, and \$1 million for each of the years ended December 31, 2017 and 2016. As of December 31, 2018, there was \$4 million of unrecognized compensation cost related to unvested restricted stock. This cost will be recognized over a weighted average period of less than two years. Restrictions on shares of restricted stock outstanding lapse through 2022.

***Deferred Stock Units (“DSUs”)***

The following table summarizes the activities related to DSUs for the years ended December 31, 2018, 2017, and 2016.

**Table 18.3 – Deferred Stock Units Activities**

	Years Ended December 31,					
	2018		2017		2016	
	Units	Weighted Average Grant Date Fair Market Value	Units	Weighted Average Grant Date Fair Market Value	Units	Weighted Average Grant Date Fair Market Value
Outstanding at beginning of period	1,878,491	\$ 15.92	1,848,862	\$ 16.46	2,407,154	\$ 16.45
Granted	670,254	15.53	565,921	16.01	565,061	13.33
Distributions	(212,025)	18.37	(504,417)	18.09	(1,060,459)	14.64
Forfeitures	—	—	(31,875)	14.80	(62,894)	18.66
<b>Balance at End of Period</b>	<b>2,336,720</b>	<b>\$ 15.58</b>	<b>1,878,491</b>	<b>\$ 15.92</b>	<b>1,848,862</b>	<b>\$ 16.46</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 18. Equity Compensation Plans - (continued)**

We generally grant DSUs annually, as part of our compensation process. In addition, DSUs are granted from time to time in connection with hiring and promotions and in lieu of the payment in cash of a portion of annual bonus earned. At December 31, 2018 and 2017, the number of outstanding DSUs that were unvested was 1,155,098 and 988,656, respectively. The weighted average grant-date fair value of these unvested DSUs was \$15.18 and \$15.20 at December 31, 2018 and 2017, respectively. Unvested DSUs at December 31, 2018 will vest through 2022.

Expenses related to DSUs were \$8 million, \$6 million, and \$9 million for the years ended December 31, 2018, 2017, and 2016, respectively. At December 31, 2018, there was \$14 million of unrecognized compensation cost related to unvested DSUs. This cost will be recognized over a weighted average period of less than two years. At December 31, 2018 and 2017, the number of outstanding DSUs that had vested was 1,181,623 and 889,835, respectively.

***Performance Stock Units ("PSUs")***

At December 31, 2018 and December 31, 2017, the target number of PSUs that were unvested was 725,616 and 704,270, respectively. During 2018, 2017, and 2016, 258,078, 273,054, and 194,484 target number of PSUs were granted, respectively, with per unit grant date fair values of \$17.05, \$13.24, and \$9.46, respectively. During the years ended December 31, 2018 and 2017, there were no PSUs forfeited due to employee departures. During the year ended December 31, 2016, there were 208,330 target number of PSUs forfeited due to employee departures.

With respect to 235,053 target number of PSUs granted in December 2018, the number of underlying shares of common stock that vest and that the recipient becomes entitled to receive at the time of vesting will generally range from 0% to 250% of the target number of PSUs granted, with the target number of PSUs granted being adjusted to reflect the value of any dividends declared on our common stock during the vesting period. Vesting of these PSUs will generally occur as of January 1, 2022 based on a three-step process as described below.

- First, baseline vesting would range from 0% - 200% of the target number of PSUs granted based on the level of book value total stockholder return ("bvTSR") attained over the three-year vesting period, with 100% of the target number of PSUs vesting if three-year bvTSR is 25%. Book Value TSR for the PSUs granted in December 2018 is defined as the percentage by which our book value "per share price" has increased or decreased as of the last day of the three-year vesting period relative to the first day of such vesting period, adjusted to reflect the reinvestment of all dividends declared and/or paid on our common stock, compared to the bvTSR goal for the performance period.
- Second, the vesting level would then be adjusted to increase or decrease by up to an additional 50 percentage points based on Redwood's relative total stockholder return ("rTSR") against a comparator group of companies measured over the three-year vesting period, with median rTSR performance correlating to no adjustment from the baseline level of vesting.
- Third, if the vesting level after steps one and two is greater than 100% of the target number of PSUs, but absolute total shareholder return ("TSR") is negative over the three-year performance period, vesting would be capped at 100% of target number of PSUs. TSR is defined as the percentage by which our common stock "per share price" has increased or decreased as of the last day of the three-year vesting period relative to the first day of such vesting period, adjusted to reflect the reinvestment of all dividends declared and/or paid on our common stock ("Three-Year TSR").

The grant date fair value of the December 2018 PSUs of \$17.23 was determined through Monte-Carlo simulations using the following assumptions: the common stock closing price at the grant date for Redwood and each member of the comparator group, the average closing price of the common stock price for the 60 trading days prior to the grant date for Redwood and each member of the comparator group, and the range of performance-based vesting based on Absolute TSR over three years from the grant date. For the 2018 PSU grant, an implied volatility assumption of 22% (based on historical volatility), a risk-free rate of 2.78% (the three-year Treasury rate on the grant date), and a 0% dividend yield (the mathematical equivalent to reinvesting the dividends over the three-year performance period as is consistent with the terms of the PSUs) were used.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 18. Equity Compensation Plans - (continued)**

In May 2018, 23,025 target number of PSUs with a per unit grant date fair value of \$15.20 were granted to two executives in connection with their promotions. The grant date fair values of these PSUs were determined through Monte-Carlo simulations using the following assumptions: our common stock closing price at the grant date, the average closing price of our common stock price for the 60 trading days prior to the grant date and the range of performance-based vesting based on Three-Year TSR and the performance-based vesting formula described below with respect to PSUs granted in December 2017. For this PSU grant, an implied volatility assumption of 27% (based on historical volatility), a risk-free rate of 2.71% (the three-year Treasury rate on the grant date), and a 0% dividend yield (the mathematical equivalent to reinvesting the dividends over the three-year performance period as is consistent with the terms of the PSUs) were used.

With respect to the PSUs granted in December 2017, vesting will generally occur at the end of three years from their grant date, with the level of vesting at that time contingent on the Three-Year TSR. The number of underlying shares of our common stock that will vest in future years will vary between 0% (if Three-Year TSR is zero or negative) and 200% (if Three-Year TSR is greater than or equal to 125%) of the target number of PSUs originally granted, adjusted upward (if vesting is greater than 0%) to reflect the value of dividends paid during the three-year vesting period.

The grant date fair values of 2017 PSUs were determined through Monte-Carlo simulations using the following assumptions: our common stock closing price at the grant date, the average closing price of our common stock price for the 60 trading days prior to the grant date and the range of performance-based vesting based on TSR over three years from the grant date. For the 2017 PSU grant, an implied volatility assumption of 27% (based on historical volatility), a risk-free rate of 1.90% (the three-year Treasury rate on the grant date), and a 0% dividend yield (the mathematical equivalent to reinvesting the dividends over the three-year performance period as is consistent with the terms of the PSUs) were used.

With respect to the PSUs granted in 2016, vesting will generally occur at the end of three years from their grant date based on four different two-year TSR performance measurement periods and continued employment through December 13, 2019. For purposes of measuring TSR over a three-year vesting period, the PSUs granted in 2016 are divided into four tranches with staggered two-year performance measurement periods beginning on: the grant date; the three-month anniversary of the grant date; the six-month anniversary of the grant date; and the nine-month anniversary of the grant date, respectively. Performance-based vesting of each tranche is based on TSR over the respective two-year performance measurement period. TSR for the PSUs granted in 2016 is defined as the percentage by which our common stock "per share price" has increased or decreased as of the last day of each two-year performance measurement period relative to the first day of such performance measurement period, adjusted to reflect the reinvestment of all dividends declared and/or paid on our common stock ("Two-Year TSR"). The PSUs earned for each of the four two-year periods will vest and be distributed in December 2019. The number of underlying common shares of our common stock that will vest will vary between 0% (if the Two-Year TSR for a tranche is zero or negative) and 200% (if the Two-Year TSR for a tranche is greater than or equal to 72%) of the target number of PSUs originally granted in each tranche, adjusted upward (if vesting is greater than 0%) to reflect the value of dividends paid during the three-year vesting period.

The grant date fair values of the 2016 PSUs were determined through Monte-Carlo simulations using the following assumptions: our common stock closing price at the grant date, the average closing price of our common stock price for the 60 trading days prior to the grant date and the range of performance-based vesting based on TSR over four separate two-year performance periods. For the 2016 PSU grant, an implied volatility assumption of 29% (based on historical volatility), a risk-free rate of 1.57% (the three-year Treasury rate on the grant date), and a 0% dividend yield (the mathematical equivalent to reinvesting the dividends over the three-year performance period as is consistent with the terms of the PSUs), were used.

With respect to the PSUs granted in 2015, the three-year performance period ended during the fourth quarter of 2018, resulting in the vesting of 387,937 shares of our common stock. With respect to the PSUs granted in 2014, the three-year performance period ended during the fourth quarter of 2017, resulting in the vesting of zero shares of our underlying common stock. With respect to the PSUs granted in 2013, the three-year performance period ended during the fourth quarter of 2016, resulting in the vesting of zero shares of our underlying common stock.

Expenses related to PSUs were \$3 million for each of the years ended December 31, 2018, 2017, and 2016. As of December 31, 2018, there was \$7 million of unrecognized compensation cost related to unvested PSUs.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 18. Equity Compensation Plans - (continued)**

***Employee Stock Purchase Plan ("ESPP")***

The ESPP allows a maximum of 450,000 shares of common stock to be purchased in aggregate for all employees. As of December 31, 2018, 390,569 shares had been purchased, respectively, and there remained a negligible amount of uninvested employee contributions in the ESPP at December 31, 2018.

The following table summarizes the activities related to the ESPP for the years ended December 31, 2018, 2017, and 2016.

**Table 18.4 – Employee Stock Purchase Plan Activities**

<b>(In Thousands)</b>	<b>Years Ended December 31,</b>		
	<b>2018</b>	<b>2017</b>	<b>2016</b>
Balance at beginning of period	\$ 4	\$ 3	\$ 18
Employee purchases	375	305	290
Cost of common stock issued	(373 )	(304 )	(305 )
<b>Balance at End of Period</b>	<b>\$ 6</b>	<b>\$ 4</b>	<b>\$ 3</b>

***Executive Deferred Compensation Plan***

The following table summarizes the cash account activities related to the EDCP for the years ended December 31, 2018, 2017, and 2016.

**Table 18.5 – EDCP Cash Accounts Activities**

<b>(In Thousands)</b>	<b>Years Ended December 31,</b>		
	<b>2018</b>	<b>2017</b>	<b>2016</b>
Balance at beginning of period	\$ 2,171	\$ 2,088	\$ 2,095
New deferrals	759	750	558
Accrued interest	82	58	53
Withdrawals	(528)	(725)	(618)
<b>Balance at End of Period</b>	<b>\$ 2,484</b>	<b>\$ 2,171</b>	<b>\$ 2,088</b>

In the fourth quarter of 2018, our Board of Directors approved an amendment to the EDCP to increase by 200,000 shares the shares available to allow non-employee directors to defer certain cash payments and dividends into DSUs.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 19. Mortgage Banking Activities**

The following table presents the components of Mortgage banking activities, net, recorded in our consolidated statements of income for the years ended December 31, 2018, 2017, and 2016.

**Table 19.1 – Mortgage Banking Activities**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Residential Mortgage Banking Activities, Net</b>			
Changes in fair value of:			
Residential loans, at fair value <sup>(1)</sup>	\$ 21,808	\$ 69,373	\$ 31,399
Single-family rental loans, at fair value <sup>(1)</sup>	453	—	—
Sequoia securities	—	—	1,455
Risk management derivatives <sup>(2)</sup>	34,739	(17,529)	5,696
Other income (expense), net <sup>(3)</sup>	2,566	2,064	2,203
Total residential mortgage banking activities, net	59,566	53,908	40,753
<b>Commercial Mortgage Banking Activities, Net</b>	—	—	(2,062)
<b>Mortgage Banking Activities, Net</b>	<u>\$ 59,566</u>	<u>\$ 53,908</u>	<u>\$ 38,691</u>

(1) Includes changes in fair value for associated loan purchase and forward sale commitments.

(2) Represents market valuation changes of derivatives that were used to manage risks associated with our accumulation of loans.

(3) Amounts in this line item include other fee income from loan acquisitions and the provision for repurchases expense, presented net.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 20. Investment Fair Value Changes**

The following table presents the components of Investment fair value changes, net, recorded in our consolidated statements of income for the years ended December 31, 2018, 2017 and 2016.

**Table 20.1 – Investment Fair Value Changes**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Investment Fair Value Changes, Net</b>			
Changes in fair value of:			
Residential loans held-for-investment, at Redwood	\$ (29,573)	\$ (5,765)	\$ (23,102)
Residential bridge loans held-for-investment	(29)	—	—
Trading securities	(8,055)	39,526	9,666
Servicer advance investments	(701)	—	—
Excess MSRs	1,823	—	—
Net investments in Legacy Sequoia entities <sup>(1)</sup>	(1,016)	(8,027)	(4,200)
Net investments in Sequoia Choice entities <sup>(1)</sup>	443	(323)	—
Net investment in Freddie Mac SLST entity <sup>(1)</sup>	1,271	—	—
Net investments in Freddie Mac K-Series entities <sup>(1)</sup>	931	—	—
Risk-sharing investments	(434)	(1,484)	(1,151)
Risk management derivatives, net	9,740	(12,842)	(9,112)
Valuation adjustments on commercial loans held-for-sale	—	300	(307)
Impairments on AFS securities	(89)	(1,011)	(368)
<b>Investment Fair Value Changes, Net</b>	<u>\$ (25,689)</u>	<u>\$ 10,374</u>	<u>\$ (28,574)</u>

(1) Includes changes in fair value of the loans held-for-investment, REO and the ABS issued at the entities, which netted together represent the change in value of our retained investments at the consolidated VIEs.



**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 21. Operating Expenses**

Components of our operating expenses for the years ended December 31, 2018, 2017 and 2016 are presented in the following table.

**Table 21.1 – Components of Operating Expenses**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
Fixed compensation expense	\$ 24,445	\$ 22,111	\$ 24,332
Variable compensation expense <sup>(1)</sup>	14,589	20,574	16,581
Equity compensation expense	12,388	10,141	9,093
Total compensation expense	51,422	52,826	50,006
Systems and consulting	7,451	7,073	9,037
Loan acquisition costs <sup>(2)</sup>	7,697	5,022	5,744
Office costs	4,705	4,248	4,550
Accounting and legal	5,529	2,842	3,658
Corporate costs	1,955	1,856	2,106
Other operating expenses	4,023	3,289	3,284
<b>Operating expenses before restructuring charges</b>	<b>82,782</b>	<b>77,156</b>	<b>78,385</b>
Restructuring charges <sup>(3)</sup>	—	—	10,401
<b>Total Operating Expenses</b>	<b>\$ 82,782</b>	<b>\$ 77,156</b>	<b>\$ 88,786</b>

(1) Variable compensation expense in 2017 includes \$2 million of costs associated with the hiring of a new executive officer.

(2) Loan acquisition costs primarily includes underwriting and due diligence costs related to the acquisition of residential loans held-for-sale at fair value.

(3) For the year ended December 31, 2016, restructuring charges included \$5 million of fixed compensation expense and \$3 million of equity compensation expense related to one-time termination benefits, as well as \$2 million of other contract termination costs, associated with the restructuring of our conforming and commercial mortgage banking operations and related charges associated with the departure of Redwood's President announced in the first quarter of 2016.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 22. Taxes**

Components of our net deferred tax assets at December 31, 2018 and December 31, 2017 are presented in the following table.

**Table 22.1 – Deferred Tax Assets (Liabilities)**

(In Thousands)	December 31, 2018	December 31, 2017
<b>Deferred Tax Assets</b>		
Net operating loss carryforward – state	\$ 103,858	\$ 108,085
Net capital loss carryforward – federal	—	535
Real estate assets	2,400	—
Interest rate agreements	2,320	1,380
Allowances and accruals	1,830	2,044
Other	1,586	1,844
Total Deferred Tax Assets	111,994	113,888
<b>Deferred Tax Liabilities</b>		
Real estate assets	—	(562)
Mortgage Servicing Rights	(20,068)	(20,540)
Tax effect of unrealized gains – OCI	—	(1,166)
Total Deferred Tax Liabilities	(20,068)	(22,268)
Valuation allowance	(100,948)	(103,384)
<b>Total Deferred Tax Asset (Liability), net of Valuation Allowance</b>	<b>\$ (9,022)</b>	<b>\$ (11,764)</b>

The deferred tax assets and liabilities reported above, with the exception of the state net operating loss and capital loss carryforwards, relate solely to our TRS. For state purposes, the REIT files a unitary combined return with its TRS. Because the REIT may have state taxable income apportioned to it from the activity of its TRS, we report the entire combined unitary state net operating loss and capital loss carryforwards as deferred tax assets, including the carryforwards allocated to the REIT.

Realization of our deferred tax assets ("DTAs") at December 31, 2018, is dependent on many factors, including generating sufficient taxable income prior to the expiration of NOL carryforwards and generating sufficient capital gains in future periods prior to the expiration of capital loss carryforwards. We determine the extent to which realization of the deferred assets is not assured and establish a valuation allowance accordingly.

As a result of GAAP income generated at our TRS in 2018 and 2017, we are reporting net federal ordinary and capital deferred tax liabilities ("DTLs") at December 31, 2018 and December 31, 2017 and consequently no valuation allowance was recorded against any federal DTA in either of these periods. Consistent with prior periods, at December 31, 2018, we continued to maintain a valuation allowance against our net state DTAs as we remain uncertain about our ability to generate sufficient income in future periods needed to utilize net state DTAs beyond the reversal of our state DTLs.

Our estimate of net deferred tax assets could change in future periods to the extent that actual or revised estimates of future taxable income during the carryforward periods change from current expectations. We assessed our tax positions for all open tax years (i.e., Federal, 2015 to 2018, and State, 2014 to 2018) and, at December 31, 2018 and December 31, 2017, concluded that we had no uncertain tax positions that resulted in material unrecognized tax benefits.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 22. Taxes (continued)**

At December 31, 2018, our federal NOL carryforward at the REIT was \$39 million, which will expire in 2029. In order to utilize NOLs at the REIT, taxable income must exceed dividend distributions. At December 31, 2018, our taxable REIT subsidiaries had no federal NOLs, as they were fully utilized in 2017. Redwood and its taxable subsidiaries accumulated an estimated state NOL of \$1.21 billion at December 31, 2018. These NOLs expire beginning in 2029. If certain substantial changes in the Company's ownership occur, there could be an annual limitation on the amount of the carryforwards that can be utilized.

The following table summarizes the provision for income taxes for the years ended December 31, 2018, 2017, and 2016.

**Table 22.2 – Provision for Income Taxes**

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
<b>Current Provision for Income Taxes</b>			
Federal	\$ 11,387	\$ 512	\$ 1,477
State	820	361	331
<b>Total Current Provision for Income Taxes</b>	<b>12,207</b>	<b>873</b>	<b>1,808</b>
<b>Deferred Provision for Income Taxes</b>			
Federal	(1,419)	10,991	1,910
State	300	(112)	(10)
<b>Total Deferred (Benefit) Provision for Income Taxes</b>	<b>(1,119)</b>	<b>10,879</b>	<b>1,900</b>
<b>Total Provision for Income Taxes</b>	<b>\$ 11,088</b>	<b>\$ 11,752</b>	<b>\$ 3,708</b>

The following is a reconciliation of the statutory federal and state tax rates to our effective tax rate at December 31, 2018, 2017, and 2016.

**Table 22.3 – Reconciliation of Statutory Tax Rate to Effective Tax Rate**

	December 31, 2018	December 31, 2017	December 31, 2016
Federal statutory rate	21.0 %	34.0 %	34.0 %
State statutory rate, net of Federal tax effect	8.6 %	7.2 %	7.2 %
Differences in taxable (loss) income from GAAP income	(1.7)%	(3.9)%	(1.0)%
Change in valuation allowance	1.9 %	(1.0)%	(11.2)%
Dividends paid deduction	(21.3)%	(23.4)%	(26.3)%
Federal statutory rate change	— %	(5.2)%	— %
<b>Effective Tax Rate</b>	<b>8.5 %</b>	<b>7.7 %</b>	<b>2.7 %</b>

We believe that we have met all requirements for qualification as a REIT for federal income tax purposes. Many requirements for qualification as a REIT are complex and require analysis of particular facts and circumstances. Often there is only limited judicial or administrative interpretive guidance and as such there can be no assurance that the Internal Revenue Service or courts would agree with our various tax positions. If we did not meet the requirements for statutory relief, we could be subject to a 100% prohibited transaction tax for certain transactions, be required to distribute additional dividends, or be subject to federal corporate income tax on our taxable income. We could also potentially lose our REIT status. Any of these outcomes could have a material adverse impact on our consolidated financial statements.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 23. Segment Information**

Redwood operates in two segments: Investment Portfolio and Mortgage Banking. Our segments are based on our organizational and management structure, which aligns with how our results are monitored and performance is assessed. The accounting policies of the reportable segments are the same as those described in *Note 3 — Summary of Significant Accounting Policies*. For a full description of our segments, see Item 1—*Business* in this Annual Report on Form 10-K.

Segment contribution represents the measure of profit that management uses to assess the performance of our business segments and make resource allocation and operating decisions. Certain corporate expenses not directly assigned or allocated to one of our two segments, as well as activity from certain consolidated Sequoia entities, are included in the Corporate/Other column as reconciling items to our consolidated financial statements. These unallocated corporate expenses primarily include interest expense associated with certain long-term debt, indirect operating expenses, and other expense.

The following tables present financial information by segment for the years ended December 31, 2018, 2017, and 2016.

**Table 23.1 – Business Segment Financial Information**

(In Thousands)	Year Ended December 31, 2018			
	Investment Portfolio	Mortgage Banking	Corporate/ Other	Total
Interest income	\$ 304,636	\$ 53,054	\$ 21,027	\$ 378,717
Interest expense	(149,139 )	(28,934 )	(60,966 )	(239,039 )
<b>Net interest income (loss)</b>	<b>155,497</b>	<b>24,120</b>	<b>(39,939 )</b>	<b>139,678</b>
<b>Non-interest income</b>				
Mortgage banking activities, net	—	59,566	—	59,566
Investment fair value changes, net	(24,693 )	—	(996 )	(25,689 )
Other income, net	12,433	—	441	12,874
Realized gains, net	27,041	—	—	27,041
<b>Total non-interest income, net</b>	<b>14,781</b>	<b>59,566</b>	<b>(555 )</b>	<b>73,792</b>
Direct operating expenses	(10,357 )	(28,172 )	(44,253 )	(82,782 )
Provision for income taxes	(3,741 )	(7,347 )	—	(11,088 )
<b>Segment Contribution</b>	<b>\$ 156,180</b>	<b>\$ 48,167</b>	<b>\$ (84,747)</b>	
<b>Net Income</b>				<b>\$ 119,600</b>
Non-cash amortization income (expense), net	\$ 16,849	\$ (181)	\$ (4,289)	\$ 12,379

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 23. Segment Information (continued)**

(In Thousands)	Year Ended December 31, 2017			
	Investment Portfolio	Mortgage Banking	Corporate/ Other	Total
Interest income	\$ 188,760	\$ 39,309	\$ 19,988	\$ 248,057
Interest expense	(36,690)	(17,369)	(54,757)	(108,816)
<b>Net interest income (loss)</b>	<b>152,070</b>	<b>21,940</b>	<b>(34,769)</b>	<b>139,241</b>
<b>Non-interest income</b>				
Mortgage banking activities, net	—	53,908	—	53,908
Investment fair value changes, net	18,414	—	(8,040)	10,374
Other income, net	12,436	—	—	12,436
Realized gains, net	14,107	—	(752)	13,355
<b>Total non-interest income, net</b>	<b>44,957</b>	<b>53,908</b>	<b>(8,792)</b>	<b>90,073</b>
Direct operating expenses	(6,028)	(25,113)	(46,015)	(77,156)
Provision for income taxes	(5,328)	(6,424)	—	(11,752)
<b>Segment Contribution</b>	<b>\$ 185,671</b>	<b>\$ 44,311</b>	<b>\$ (89,576)</b>	
<b>Net Income</b>				<b>\$ 140,406</b>
Non-cash amortization income (expense), net	\$ 20,974	\$ (102)	\$ (3,410)	\$ 17,462

(In Thousands)	Year Ended December 31, 2016			
	Investment Portfolio	Mortgage Banking	Corporate/ Other	Total
Interest income	\$ 192,200	\$ 33,661	\$ 20,494	\$ 246,355
Interest expense	(22,997)	(14,191)	(51,340)	(88,528)
<b>Net interest income (loss)</b>	<b>169,203</b>	<b>19,470</b>	<b>(30,846)</b>	<b>157,827</b>
Reversal of provision for loan losses	7,102	—	—	7,102
<b>Non-interest income</b>				
Mortgage banking activities, net	—	40,753	(2,062)	38,691
Investment fair value changes, net	(24,367)	—	(4,207)	(28,574)
Other income, net	20,691	—	—	20,691
Realized gains, net	27,717	—	292	28,009
<b>Total non-interest income, net</b>	<b>24,041</b>	<b>40,753</b>	<b>(5,977)</b>	<b>58,817</b>
Direct operating expenses <sup>(1)</sup>	(10,421)	(23,252)	(55,113)	(88,786)
Provision for income taxes	(1,848)	(1,860)	—	(3,708)
<b>Segment Contribution</b>	<b>\$ 188,077</b>	<b>\$ 35,111</b>	<b>\$ (91,936)</b>	
<b>Net Income</b>				<b>\$ 131,252</b>
Non-cash amortization income (expense), net	\$ 29,806	\$ (130)	\$ (3,972)	\$ 25,704

(1) For the year ended December 31, 2016, charges associated with the restructuring of our conforming residential mortgage loan operations and commercial operations, included in the direct operating expense line item, are presented under the Corporate/Other column.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 23. Segment Information (continued)**

The following table presents the components of Corporate/Other for the years ended December 31, 2018, 2017, and 2016.

**Table 23.2 – Components of Corporate/Other**

(In Thousands)	Years Ended December 31,								
	2018			2017			2016		
	Legacy Consolidated VIEs <sup>(1)</sup>	Other	Total	Legacy Consolidated VIEs <sup>(1)</sup>	Other	Total	Legacy Consolidated VIEs <sup>(1)</sup>	Other	Total
Interest income	\$ 20,036	\$ 991	\$ 21,027	\$ 19,407	\$ 581	\$ 19,988	\$ 19,537	\$ 957	\$ 20,494
Interest expense	(16,519)	(44,447)	(60,966)	(14,789)	(39,968)	(54,757)	(13,103)	(38,237)	(51,340)
<b>Net interest income (loss)</b>	<b>3,517</b>	<b>(43,456)</b>	<b>(39,939)</b>	<b>4,618</b>	<b>(39,387)</b>	<b>(34,769)</b>	<b>6,434</b>	<b>(37,280)</b>	<b>(30,846)</b>
<b>Non-interest income</b>									
Mortgage banking activities, net	—	—	—	—	—	—	—	(2,062)	(2,062)
Investment fair value changes, net	(1,016)	20	(996)	(8,027)	(13)	(8,040)	(4,200)	(7)	(4,207)
Other income, net	—	441	441	—	—	—	—	—	—
Realized gains, net	—	—	—	—	(752)	(752)	—	292	292
<b>Total non-interest (loss) income, net</b>	<b>(1,016)</b>	<b>461</b>	<b>(555)</b>	<b>(8,027)</b>	<b>(765)</b>	<b>(8,792)</b>	<b>(4,200)</b>	<b>(1,777)</b>	<b>(5,977)</b>
Direct operating expenses	—	(44,253)	(44,253)	—	(46,015)	(46,015)	—	(55,113)	(55,113)
<b>Total</b>	<b>\$ 2,501</b>	<b>\$ (87,248)</b>	<b>\$ (84,747)</b>	<b>\$ (3,409)</b>	<b>\$ (86,167)</b>	<b>\$ (89,576)</b>	<b>\$ 2,234</b>	<b>\$ (94,170)</b>	<b>\$ (91,936)</b>

(1) Legacy consolidated VIEs represent Legacy Sequoia entities that are consolidated for GAAP financial reporting purposes. See *Note 4* for further discussion on VIEs.

The following table presents supplemental information by segment at December 31, 2018 and December 31, 2017.

**Table 23.3 – Supplemental Segment Information**

(In Thousands)	Investment Portfolio	Mortgage Banking	Corporate/ Other	Total
<b>December 31, 2018</b>				
Residential loans	\$ 5,685,983	\$ 1,048,801	\$ 519,958	\$ 7,254,742
Business purpose residential loans	112,798	28,460	—	141,258
Multifamily loans	2,144,598	—	—	2,144,598
Real estate securities	1,452,494	—	—	1,452,494
Other investments	427,764	—	10,754	438,518
<b>Total assets</b>	<b>10,093,993</b>	<b>1,103,090</b>	<b>740,323</b>	<b>11,937,406</b>
<b>December 31, 2017</b>				
Residential loans	\$ 3,054,448	\$ 1,427,945	\$ 632,817	\$ 5,115,210
Real estate securities	1,476,510	—	—	1,476,510
Other investments	63,598	—	—	63,598
<b>Total assets</b>	<b>4,743,873</b>	<b>1,453,069</b>	<b>842,880</b>	<b>7,039,822</b>

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**  
**December 31, 2018**

**Note 24. Quarterly Financial Data - Unaudited**

(In Thousands, except Share Data)	Three Months Ended			
	December 31,	September 30,	June 30,	March 31,
<b>2018</b>				
Operating results:				
Interest income	\$ 119,725	\$ 99,397	\$ 82,976	\$ 76,619
Interest expense	(84,961)	(64,351)	(48,213)	(41,514)
Net interest income	34,764	35,046	34,763	35,105
Non-interest income	(17,679)	32,284	19,521	39,666
Operating expenses	(19,253)	(21,490)	(19,009)	(23,030)
Net (loss) income	(913)	40,921	32,747	46,845
Per share data:				
Net (loss) income – basic	\$ (0.02)	\$ 0.49	\$ 0.42	\$ 0.60
Net (loss) income – diluted	(0.02)	0.42	0.38	0.50
Regular dividends declared per common share	0.30	0.30	0.30	0.28
<b>2017</b>				
Operating results:				
Interest income	\$ 71,468	\$ 62,737	\$ 59,224	\$ 54,628
Interest expense	(36,108)	(27,443)	(24,234)	(21,031)
Net interest income	35,360	35,294	34,990	33,597
Non-interest income	10,951	26,070	25,297	27,755
Operating expenses	(20,367)	(19,922)	(18,641)	(18,226)
Net income	30,933	36,180	36,324	36,969
Per share data:				
Net income – basic	\$ 0.39	\$ 0.46	\$ 0.46	\$ 0.47
Net income – diluted	0.35	0.41	0.43	0.43
Regular dividends declared per common share	0.28	0.28	0.28	0.28

**Note 25. Subsequent Events**

On January 22, 2019, we exercised our option to acquire the remaining 80% interest in 5 Arches for a combination of cash and common stock totaling \$40 million. A portion of this remaining consideration is contingent upon 5 Arches achieving certain origination volumes over the next two years. This acquisition is expected to close in the first quarter of 2019, subject to customary closing conditions. We have owned a 20% interest in 5 Arches since May 2018, as described in *Note 10*.

On January 29, 2019, we invested in a limited partnership created to acquire \$1 billion of floating rate, light-renovation multifamily loans from Freddie Mac. We committed to fund an aggregate of \$78 million to the partnership and have funded approximately \$20 million as of February 28, 2019. Freddie Mac is providing a debt facility to finance loans purchased by the partnership. After the partnership's acquisitions have reached a specific threshold, the partnership and Freddie Mac may agree to include the related loans in a Freddie Mac-sponsored securitization. The limited partners may acquire subordinate securities issued in such securitization.

On January 29, 2019, we sold 11,500,000 shares of common stock in an underwritten public offering, resulting in net proceeds of approximately \$177 million.

**REDWOOD TRUST, INC. AND SUBSIDIARIES**  
**SCHEDULE IV - MORTGAGE LOANS ON REAL ESTATE**  
**December 31, 2018**

(In Thousands)

Description	Number of Loans	Interest Rate	Maturity Date	Carrying Amount	Principal Amount Subject to Delinquent Principal or Interest
<b>Residential Loans Held-for-Investment</b>					
At Redwood <sup>(1)</sup> :					
Hybrid ARM loans	385	2.63% to 6.38%	2043-03 - 2048-10	\$ 309,747	\$ —
Fixed loans	2,911	2.75% to 6.75%	2027-07 - 2048-11	2,074,185	1,224
At Legacy Sequoia <sup>(2)</sup> :					
ARM loans	2,620	1.25% to 5.63%	2019-02 - 2036-05	511,447	13,955
Hybrid ARM loans	21	2.63% to 5.00%	2033-07 - 2034-11	8,511	—
At Sequoia Choice <sup>(2)</sup> :					
Fixed loans	2,800	2.75% to 6.50%	2035-04 - 2048-09	2,079,382	1,905
At Freddie Mac SLST <sup>(3)</sup> :					
Fixed loans	7,900	2.00% to 10.50%	2018-12 - 2058-11	1,222,669	50,528
<b>Total Residential Loans Held-for-Investment</b>				<b>\$ 6,205,941</b>	<b>\$ 67,612</b>
<b>Residential Loans Held-for-Sale <sup>(4)</sup>:</b>					
ARM loans	2	4.00% to 4.13%	2032-11 - 2032-11	\$ 111	\$ —
Hybrid ARM loans	108	3.50% to 7.38%	2047-04 - 2049-01	89,406	—
Fixed loans	1,376	3.13% to 7.00%	2029-04 - 2049-01	959,284	747
<b>Total Residential Loans Held-for-Sale</b>				<b>\$ 1,048,801</b>	<b>\$ 747</b>
<b>Single-Family Rental Loans Held-for-Sale <sup>(4)</sup>:</b>					
Fixed loans	11	5.62% to 7.47%	2023-09 - 2028-12	\$ 28,460	\$ —
<b>Total Single-Family Rental Loans Held-for-Sale</b>				<b>\$ 28,460</b>	<b>\$ —</b>
<b>Residential Bridge Loans Held-for-Investment <sup>(4)</sup>:</b>					
Fixed loans	157	7.50% to 12.00%	2018-07 - 2020-05	\$ 112,798	\$ 12,134
<b>Total Residential Bridge Loans Held-for-Investment</b>				<b>\$ 112,798</b>	<b>\$ 12,134</b>
<b>Multifamily Loans Held-for-Investment <sup>(3)</sup>:</b>					
At Freddie Mac K-Series:					
Fixed loans	162	3.29% to 4.73%	2023-01 - 2027-01	\$ 2,144,598	\$ —
<b>Total Multifamily Loans Held-for-Investment</b>				<b>\$ 2,144,598</b>	<b>\$ —</b>

- (1) For our held-for-investment residential loans at Redwood, the aggregate tax basis for Federal income tax purposes at December 31, 2018 was \$2.42 billion.
- (2) For our held-for-investment loans at consolidated Legacy Sequoia and Sequoia Choice entities, the aggregate tax basis for Federal income tax purposes at December 31, 2018 was zero, as the transfers of these loans into securitizations were treated as sales for tax purposes.
- (3) Our held-for-investment loans at Freddie Mac SLST and Freddie Mac K-Series entities were consolidated for GAAP purposes. For tax purposes, we acquired the underlying real estate securities and therefore, the tax basis in these loans is zero at December 31, 2018.
- (4) The aggregate tax basis for Federal income tax purposes of our mortgage loans held at Redwood approximates the carrying values, as disclosed in the schedule.



REDWOOD TRUST, INC. AND SUBSIDIARIES

NOTE TO SCHEDULE IV - RECONCILIATION OF MORTGAGE LOANS ON REAL ESTATE  
December 31, 2018

The following table summarizes the changes in the carrying amount of mortgage loans on real estate during the years ended December 31, 2018, 2017, and 2016.

(In Thousands)	Years Ended December 31,		
	2018	2017	2016
Balance at beginning of period	\$ 5,115,210	\$ 3,890,751	\$ 4,331,450
Additions during period:			
Originations/acquisitions	10,607,896	5,741,427	4,983,049
Net discount accretion	—	—	330
Deductions during period:			
Sales	(5,426,304)	(3,982,683)	(4,509,644)
Principal repayments	(843,984)	(576,620)	(879,188)
Reversal of provision for loan losses	—	—	7,102
Transfers to REO	(4,104)	(4,219)	(11,566)
Deconsolidation adjustments	—	—	(6,871)
Changes in fair value, net	91,884	46,554	(23,911)
Balance at end of period	\$ 9,540,598	\$ 5,115,210	\$ 3,890,751

**REDWOOD TRUST, INC.  
RESTRICTED STOCK UNIT AWARD AGREEMENT**

**RESTRICTED STOCK UNIT AWARD AGREEMENT** dated as of the *[Date]* day of *[Month]* *[Year]* (the “Award Agreement”), by and between Redwood Trust, Inc., a Maryland corporation (the “Company”), and *[First Name]* *[Last Name]*, an employee, consultant or non-employee director of the Company (the “Participant”).

Pursuant to the Redwood Trust, Inc. Amended and Restated 2014 Incentive Award Plan (as may be amended from time to time, the “Plan”), the Compensation Committee (the “Committee”) of the Board of Directors of the Company has determined that the Participant is to be granted an award of Restricted Stock Units for shares of the Company’s common stock, par value \$0.01 per share (“Common Stock”), on the terms and conditions set forth herein (the “Award”), and the Company hereby grants such Award. Any capitalized terms not defined herein shall have the meaning set forth in the Plan.

**1. Number of Shares Awarded; Deferral Election.** This Award entitles the Participant to receive *[Number of shares (\_\_\_\_\_)]* shares of Common Stock (the “Award Shares”), in connection with the expiration of the Restricted Period described below.

**2. Dividends.** In accordance with Section 10.4 of the Plan, the number of Award Shares set forth in Section 1 shall not be adjusted to reflect the payment of regular cash dividends declared on Common Stock during the Restricted Period. The Participant will instead be entitled to Dividend Equivalents (“DERs”) pursuant to which the Participant will be entitled to receive, pursuant to the Plan, an amount equal to the aggregate regular cash dividends with a record date during the Restricted Period that would have been payable to the Participant with respect to the share of Common Stock underlying the Award Share had it been outstanding on the applicable record date. DERs shall remain outstanding from the Grant Date (as defined below) until the earlier of the payment or forfeiture of the underlying Award Share (at which point, the corresponding DER will be forfeited). Any amounts that may become payable in respect of this Section 2 shall be paid as and when the dividends in respect of which such DER payments arise are paid to holders of Common Stock, without regard to the vested status of the underlying Award Share. Any amounts that may become payable in respect of this Section 2 shall be treated separately from the Award Shares and the rights arising in connection therewith for purposes of Section 409A of the Code.

**3. Vesting and Restricted Periods.**

(a) The Award Shares shall vest on the following schedule:

As of *[1st year anniversary of the date of this Award Agreement]*, 25%;

As of *[2nd year anniversary of the date of this Award Agreement]*, 25%;

As of *[3rd year anniversary of the date of this Award Agreement]*, 25%; and

As of *[4th year anniversary of the date of this Award Agreement]*, 25%.

Award Shares that have become vested pursuant to this Section 3 are referred to as “Vested Award Shares”. The period from the date of this Award to the applicable date or dates specified for delivery of such shares is referred to as the “Restricted Period”.

(b) Subject to Section 12, Award Shares shall be delivered to the Participant on the thirtieth (30th) day following the earliest to occur of: (i) to the extent vested, the applicable Vesting Date, (ii) the date of the Participant’s death, (iii) a “change in control event” of the Company (within the meaning of Section 409A of the Code) or (iv) the date of the Participant’s Separation from Service (the “Payment Dates”), with each issuance to occur within thirty (30) days following the applicable Payment Date. Notwithstanding anything to the contrary contained herein, the exact payment date of any Award Shares shall be determined by the Company in its sole discretion (and the Participant shall not have a right to designate the time of payment). If the Payment Date is a “change in control event” and any outstanding Award Shares remain unvested as of such event (after taking into consideration any vesting which may occur in connection with the occurrence therewith), then such Award Shares will (to the extent not forfeited in connection with such “change in control event”) be distributed to the Participant as either Restricted Stock or a right to receive the cash equivalent thereof

(as determined in the sole discretion of the Company), and the vesting schedule that applied to the underlying Award Shares immediately prior to such distribution will continue to apply to such Restricted Stock or cash equivalent right.

(c) Upon the Participant's Termination of Service due to Disability or death or a Qualifying CIC Termination (as defined below), in any such case, prior to the expiration of the vesting period in Section 3(a), any Award Shares not vested at the time of such termination shall immediately vest and shall not be forfeited. Notwithstanding anything herein or in the Plan, for purposes of this Section 3(c), a "Disability" shall only exist if the Participant is "disabled" within the meaning of Section 409A of the Code.

(d) Upon the Participant's Termination of Service due to Retirement (as defined below) on or following the one-year anniversary of the Grant Date (as defined below), any Award Shares not vested at the time of such termination shall immediately vest and shall not be forfeited. Upon the Participant's Termination of Service due to Retirement prior to the one-year anniversary of the Grant Date, a number of Award Shares not vested at the time of such Termination of Service shall vest such that the total number of Award Shares vested with respect to this Award equals the total number of Award Shares, pro-rated based on (x) the number of days from the Grant Date through the date on which the Participant experiences a Termination of Service due to Retirement, divided by (y) 365, and such pro-rata portion of the Award Shares shall not be forfeited.

(e) Upon the Participant's Termination of Service prior to the expiration of the vesting period in Section 3(a), any Award Shares not vested at the time of such termination (after taking into account any vesting that occurs in connection with such Termination of Service) shall be forfeited.

(f) For purposes of this Agreement, the following terms have the meanings set forth below:

(i) A "Qualifying CIC Termination" means the Participant's Termination of Service by the Company without Cause or by the Participant for Good Reason, in either case, on or within twenty-four (24) months following a Change in Control (as defined in the Plan).

(ii) "Cause" shall mean (i) the Participant's material failure to substantially perform the reasonable and lawful duties of the Participant's position for the Company, which failure shall continue for thirty (30) days after written notice thereof by the Company to the Participant; (ii) acts or omissions constituting gross negligence, recklessness or willful misconduct on the Participant's part in respect of the performance of the Participant's duties, the Participant's fiduciary obligations or otherwise relating to the business of the Company; (iii) the habitual or repeated neglect of the Participant's duties; (iv) the Participant's conviction of a felony; (v) the Participant's theft or embezzlement, or attempted theft or embezzlement, of money or tangible or intangible assets or property of the Company or its employees, customers, clients, or others having business relations with the Company; (vi) any act of moral turpitude by the Participant injurious to the interest, property, operations, business or reputation of the Company; or (vii) the Participant's unauthorized use or disclosure of trade secrets or confidential or proprietary information pertaining to the Company's business.

(iii) "Good Reason" shall mean the occurrence, without the Participant's express written consent, of any one or more of the following events: (i) a material reduction in the Participant's base salary or wages or a material reduction by the Company in the value of the Participant's total compensation package (salary, wages, bonus opportunity, equity incentive award opportunity and benefits) if such a reduction is not made in proportion to an across-the-board reduction for all similarly-situated service providers of the Company; or (ii) the relocation of the Participant's principal Company office to a location more than twenty-five (25) miles from its location as of the date hereof, except for required travel on the Company's business to the extent necessary to fulfill the Participant's obligations to the Company. Notwithstanding the foregoing, the Participant will not be deemed to have resigned for Good Reason unless (1) the Participant provides the Company with written notice setting forth in reasonable detail the facts and circumstances claimed by the Participant to constitute Good Reason within ninety (90) days after the date of the occurrence of any event that the Participant knows or should reasonably have known to constitute Good Reason, (2) the Company fails to cure such acts or omissions within thirty (30) days following its receipt of such notice, and (3) the effective date of the Participant's termination for Good Reason occurs no later than thirty (30) days after the expiration of the Company's cure period.

(iv) "Grant Date" means the date first written above in this Agreement.

(v) "Retirement" shall mean a Termination of Service due to retirement (as determined by the Committee in its sole discretion) if such Termination of Service (i) occurs on or after the completion by the Participant of ten (10) years of employment with the Company (which need not be continuous) and (ii) the sum of the Participant's age and

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years of service as an Employee equals or exceeds seventy (70) (in each case measured in years, rounded down to the nearest whole number). [Notwithstanding the generality of the foregoing, a Termination of Service shall only constitute a Retirement if the Participant provides the Company with at least [insert #] months' written notice of his or her anticipated retirement (which notice period may be up to 12 months, based on the Participant's position with the Company at the time of such anticipated retirement).]

(vi) "Separation from Service" shall mean the Participant's "separation from service" from the Company within the meaning of Section 409A(a)(2)(A)(i) of the Code.

(vii) "Vesting Date" shall mean, with respect to an Award Share, each date on which the Award Share becomes vested in accordance with Section 3(a).

4. **At-Will Employment.** This Award Agreement is not an employment contract and nothing in this Award Agreement shall be deemed to create in any way whatsoever any obligation of the Participant to continue as an Employee, Consultant or Director of the Company or on the part of the Company to continue the employment or other service relationship of the Participant with the Company. It is understood and agreed to by the Participant that the Award and participation in the Plan does not alter the at-will nature of the Participant's relationship with the Company (subject to the terms of any separate employment agreement the Participant may have with the Company). The at-will nature of the Participant's relationship with the Company can only be altered by a writing signed by both the Participant and the Chief Executive Officer or the President of the Company.

5. **Notices.** Any notice required or permitted under this Award Agreement shall be deemed given when delivered personally, or when deposited in a United States Post Office, postage prepaid, addressed, as appropriate, to the Participant either at the Participant's address set forth below or such other address as the Participant may designate in writing to the Company, and to the Company: Attention: General Counsel, at the Company's address or such other address as the Company may designate in writing to the Participant.

6. **Failure to Enforce Not a Waiver.** The failure of the Company to enforce at any time any provision of this Award Agreement shall in no way be construed to be a waiver of such provision or of any other provision hereof.

7. **Restrictive Covenants; Arbitration.** The Participant agrees and acknowledges that the Participant's right to receive and retain the Award Shares and any DER payments is subject to and conditioned upon the Participant's continued compliance with the restrictive covenants contained in Exhibit A attached hereto. In addition, the Participant agrees and acknowledges that any dispute arising with respect to this Award and this Award Agreement will be subject to the Alternative Dispute Resolution provisions set forth in an Employment and Confidentiality Agreement by and between the Participant and the Company.

8. **Existing Agreements.** This Award Agreement does not supersede nor does it modify any existing agreements between the Participant and the Company.

9. **Incorporation of Plan.** The Plan is incorporated by reference and made a part of this Award Agreement, and this Award Agreement is subject to all terms and conditions of the Plan as in effect from time to time.

10. **Amendments.** This Award Agreement may be amended or modified at any time by an instrument in writing signed by the parties hereto.

11. **Withholding.** The Company shall withhold, or cause to be withheld, Award Shares or other compensation otherwise vesting or issuable under this Award in satisfaction of any applicable withholding tax obligations. The number of Award Shares which may be so withheld or surrendered shall be limited to the number of Award Shares which have a fair market value on the date of withholding no greater than the aggregate amount of such liabilities based on the maximum individual statutory withholding rates in the Participant's applicable jurisdictions for federal, state, local and foreign income tax and payroll tax purposes that are applicable to such taxable income. To the extent that any Federal Insurance Contributions Act tax withholding obligations arise in connection with the Award prior to the applicable vesting date, the Administrator may accelerate the payment of a portion of the Award sufficient to satisfy (but not in excess of) such tax withholding obligations and any tax withholding obligations associated with any such accelerated payment, and the Administrator shall withhold such amounts in satisfaction of such withholding obligations.

12. **Section 409A.** Notwithstanding anything to the contrary contained in this Award Agreement, this Award Agreement is intended to comply with Section 409A of the Code and this Award Agreement and the Plan shall be interpreted in

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a manner consistent with such intent, and any provisions of this Award Agreement or the Plan that would cause the Award to fail to satisfy the requirements for an effective deferral of compensation under Section 409A of the Code shall have no force and effect. Notwithstanding anything to the contrary in this Award Agreement, no amounts shall be paid to the Participant under this Award Agreement during the six (6)-month period following the Participant's "separation from service" (within the meaning of Section 409A of the Code) to the extent that the Administrator determines that the Participant is a "specified employee" (within the meaning of Section 409A of the Code) at the time of such separation from service and that paying such amounts at the time or times indicated in this Award Agreement would be a prohibited distribution under Section 409A(a)(2)(B)(i) of the Code. If the payment of any such amounts is delayed as a result of the previous sentence, then on the first business day following the end of such six (6)-month period (or such earlier date upon which such amount can be paid under Section 409A of the Code without being subject to such additional taxes), the Company shall pay to the Participant in a lump-sum all amounts that would have otherwise been payable to the Participant during such six (6)-month period under this Award Agreement.

*[Signature page follows.]*

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Mill Valley, CA 94941

## EXHIBIT A - Restrictive Covenants

1. Non-Disparagement. While providing services to the Company and thereafter, the Participant agrees not to make negative comments or statements about, or otherwise criticize or disparage, in any format or through any medium, the Company or any entity controlled by, controlling or under common control with the Company (“Affiliates”) or any of the officers, directors, managers, employees, services, operations, investments or products of the Company or any of its Affiliates. For purposes of the foregoing sentence, disparagement shall include, but not be limited to, negative comments or statements intended or reasonably likely to be harmful or disruptive to a person’s or entity’s respective business, business reputation, business operations, or personal reputation.
2. Non-solicitation. While providing services to the Company and, for a period of one (1) year thereafter, the Participant shall not directly or indirectly solicit, induce, or encourage any employee or consultant of any member of the Company and its subsidiaries or Affiliates to terminate their employment or other relationship with the Company and its Affiliates or to cease to render services to any member of the Company and its subsidiaries or Affiliates and the Participant shall not initiate discussion with any such person for any such purpose or authorize or knowingly cooperate with the taking of any such actions by any other individual or entity. While providing services to the Company and thereafter, the Participant shall not use any trade secret of the Company or its subsidiaries or Affiliates to solicit, induce, or encourage any customer, client, vendor, or other party doing business with any member of the Company and its subsidiaries or Affiliates to terminate its relationship therewith or transfer its business from any member of the Company and its subsidiaries or Affiliates and the Participant shall not initiate discussion with any such person for any such purpose or authorize or knowingly cooperate with the taking of any such actions by any other individual or entity.
3. Confidentiality. The Participant shall keep secret and retain in the strictest confidence all confidential, proprietary and non-public matters, tangible or intangible, of or related to the Company, its stockholders, subsidiaries, affiliates, successors, assigns, officers, directors, attorneys, fiduciaries, representatives, employees, licensees and agents including, without limitation, trade secrets, business strategies and operations, seller, counterparty and customer lists, manufacturers, vendors, material suppliers, financial information, personnel information, legal advice and counsel obtained from counsel, information regarding litigation, actual, pending or threatened, research and development, identities and habits of employees and agents and business relationships, and shall not disclose them to any person, entity or any federal, state or local agency or authority, except as may be required by law; provided that, in the event disclosure is sought as a result of any subpoena or other legal process initiated against the Participant, the Participant shall immediately give the Company’s General Counsel written notice thereof in order to afford the Company an opportunity to contest such disclosure (such notice to be delivered to: Redwood Trust, Inc., One Belvedere Place, Suite 300, Mill Valley, CA, 94941, Attn: General Counsel).
4. Exceptions. Nothing herein shall prohibit or restrict the Participant from: (i) making any disclosure of information required by law; (ii) providing information to, or testifying or otherwise assisting in any investigation or proceeding brought by, any federal or state regulatory or law enforcement agency or legislative body, any self-regulatory organization, or the Company’s Human Resources, Legal, or Compliance Departments; (iii) testifying, participating in or otherwise assisting in a proceeding relating to an alleged violation of the Sarbanes-Oxley Act of 2002, any federal, state or municipal law relating to fraud or any rule or regulation of any self-regulatory organization; or (iv) filing a charge with, reporting possible violations to, or participating or cooperating with the Securities and Exchange Commission or any other federal, state or local regulatory body or law enforcement agency (each a “Governmental Agency”). Nothing herein shall be construed to limit the Participant’s right to receive an award for any information provided to a Governmental Agency in relation to any whistleblower, anti-discrimination, or anti-retaliation provisions of federal, state or local law or regulation. In addition, notwithstanding the foregoing obligations, pursuant to 18 U.S.C. § 1833(b), the Participant understands and acknowledges that the Participant shall not be held criminally or civilly liable under any U.S. federal or state trade secret law for the disclosure of a trade secret that is made: (1) in confidence to a federal, state, or local government official, either directly or indirectly, or to an attorney, and solely for the purpose of reporting or investigating a suspected violation of law; or (2) in a complaint or other document filed in a lawsuit or other proceeding, if such filing is made under seal and protected from public disclosure. Nothing in this Agreement is intended to conflict with 18 U.S.C. § 1833(b) or create liability for disclosures of trade secrets that are expressly allowed by 18 U.S.C. § 1833(b).

**LIST OF SUBSIDIARIES  
OF REDWOOD TRUST, INC.**

<b>Subsidiaries*</b>	<b>Jurisdiction of Incorporation or Organization</b>
Redwood Residential Acquisition Corporation	Delaware
Redwood Subsidiary Holdings, LLC	Delaware
RWT Holdings, Inc.	Delaware
RWT Securities, LLC	Delaware
Sequoia Residential Funding, Inc.**	Delaware
RWT Financial, LLC	Delaware

\* In accordance with Item 601(b)(21)(ii) of Regulation S-K the names of certain subsidiaries have been omitted.

\*\* Sequoia Residential Funding, Inc. is the depositor with respect to more than 30 Sequoia securitization trusts that are not listed in this exhibit, but we are required to consolidate the assets and liabilities of certain of these trusts under GAAP for financial reporting purposes.



**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We have issued our reports dated February 28, 2019, with respect to the consolidated financial statements and internal control over financial reporting, included in the Annual Report of Redwood Trust, Inc. on Form 10-K for the year ended December 31, 2018. We consent to the incorporation by reference to said reports in the Registration Statements of Redwood Trust, Inc. on Form S-3 (File No. 333-211267, effective May 10, 2016) and on Forms S-8 (File Nos. 333-89302, effective May 29, 2002; 333-89300, effective May 29, 2002; 333-90592, effective June 17, 2002; 333-116395, effective June 10, 2004; 333-136497, effective August 10, 2006; 333-155154, effective November 6, 2008; 333-162893, effective November 5, 2009; 333-176102, effective August 5, 2011; 333-183114, effective August 7, 2012; 333-183116, effective August 7, 2012; 333-190529, effective August 9, 2013; 333-190530, effective August 9, 2013; 333-196247, effective May 23, 2014, 333-197990, effective August 8, 2014, and 333-226721, effective August 9, 2018).

/s/ GRANT THORNTON LLP

Newport Beach, California  
February 28, 2019

**CHIEF EXECUTIVE OFFICER CERTIFICATION PURSUANT TO SECTION 302 OF  
THE SARBANES-OXLEY ACT OF 2002**

I, Christopher J. Abate, certify that:

1. I have reviewed this Annual Report on Form 10-K of Redwood Trust, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over the financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and we have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2019

/s/ CHRISTOPHER J. ABATE

Christopher J. Abate  
Chief Executive Officer

**CHIEF FINANCIAL OFFICER CERTIFICATION PURSUANT TO SECTION 302 OF  
THE SARBANES-OXLEY ACT OF 2002**

I, Collin L. Cochrane, certify that:

1. I have reviewed this Annual Report on Form 10-K of Redwood Trust, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over the financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and we have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2019

/s/ COLLIN L. COCHRANE

Collin L. Cochrane

Chief Financial Officer

**CERTIFICATION**

Pursuant to 18 U.S.C. §1350, the undersigned officer of Redwood Trust, Inc. (the “Registrant”) hereby certifies that the Registrant’s Annual Report on Form 10-K for the year ended December 31, 2018 (the “Annual Report”) fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934 and that the information contained in the Annual Report fairly presents, in all material respects, the financial condition and results of operations of the Registrant.

Date: February 28, 2019

/s/ CHRISTOPHER J. ABATE

Christopher J. Abate

Chief Executive Officer

The foregoing certification is being furnished solely pursuant to 18 U.S.C. §1350 and is not being filed as part of the Annual Report or as a separate disclosure document.

**CERTIFICATION**

Pursuant to 18 U.S.C. §1350, the undersigned officer of Redwood Trust, Inc. (the “Registrant”) hereby certifies that the Registrant’s Annual Report on Form 10-K for the year ended December 31, 2018 (the “Annual Report”) fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934 and that the information contained in the Annual Report fairly presents, in all material respects, the financial condition and results of operations of the Registrant.

Date: February 28, 2019

/s/ COLLIN L. COCHRANE

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Collin L. Cochrane

Chief Financial Officer

The foregoing certification is being furnished solely pursuant to 18 U.S.C. §1350 and is not being filed as part of the Annual Report or as a separate disclosure document.