

CHIMERA INVESTMENT CORP

Form 10-Q

November 01, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

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

FOR THE QUARTERLY PERIOD ENDED: September 30, 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: 1-33796

CHIMERA INVESTMENT CORPORATION

(Exact name of Registrant as specified in its Charter)

MARYLAND

26-0630461

(State or other jurisdiction of incorporation or organization) (IRS Employer Identification No.)

520 Madison Avenue 32nd Floor

NEW YORK, NEW YORK

(Address of principal executive offices)

10022

(Zip Code)

(212) 626-2300

(Registrant's telephone number, including area code)

Indicate by check mark whether the Registrant (1) has filed all documents and 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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (Section 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes No

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, non-accelerated filer, or a smaller reporting company. See definition of "accelerated filer," "large 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

APPLICABLE ONLY TO CORPORATE ISSUERS:

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the last practicable date:

Class Outstanding at September 30, 2018

Common Stock, \$0.01 par value 187,006,943

CHIMERA INVESTMENT CORPORATION

FORM 10-Q
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Part I

Item 1. Consolidated Financial Statements

CHIMERA INVESTMENT CORPORATION

CONSOLIDATED STATEMENTS OF FINANCIAL CONDITION

(dollars in thousands, except share and per share data)

(Unaudited)

	September 30, 2018	December 31, 2017
Assets:		
Cash and cash equivalents	\$ 121,046	\$ 63,569
Non-Agency RMBS, at fair value	2,507,707	2,851,316
Agency MBS, at fair value	9,406,092	4,364,828
Loans held for investment, at fair value	12,729,559	13,678,263
Accrued interest receivable	114,798	100,789
Other assets	145,655	114,391
Derivatives, at fair value, net	155,069	48,914
Total assets ⁽¹⁾	\$ 25,179,926	\$ 21,222,070
Liabilities:		
Repurchase agreements (\$12.6 billion and \$8.8 billion, pledged as collateral, respectively)	\$ 11,143,102	\$ 7,250,452
Securitized debt, collateralized by Non-Agency RMBS (\$1.1 billion and \$1.6 billion pledged as collateral, respectively)	167,718	205,780
Securitized debt at fair value, collateralized by loans held for investment (\$12.5 billion and \$13.3 billion pledged as collateral, respectively)	8,826,879	9,388,657
Payable for investments purchased	903,424	567,440
Accrued interest payable	110,228	61,888
Dividends payable	96,809	95,365
Accounts payable and other liabilities	18,585	17,191
Derivatives, at fair value, net	—	320
Total liabilities ⁽¹⁾	\$ 21,266,745	\$ 17,587,093

Commitments and Contingencies (See Note 15)

Stockholders' Equity:

Preferred Stock, par value of \$0.01 per share, 100,000,000 shares authorized:

8.00% Series A cumulative redeemable: 5,800,000 shares issued and outstanding, respectively (\$145,000 liquidation preference)	\$ 58	\$ 58
8.00% Series B cumulative redeemable: 13,000,000 shares issued and outstanding, respectively (\$325,000 liquidation preference)	130	130
7.75% Series C cumulative redeemable: 10,400,000 and 0 shares issued and outstanding, respectively (\$260,000 liquidation preference)	104	—
Common stock: par value \$0.01 per share; 300,000,000 shares authorized, 187,006,943 and 187,809,288 shares issued and outstanding, respectively	1,870	1,878
Additional paid-in-capital	4,069,868	3,826,691
Accumulated other comprehensive income	627,936	796,902
Cumulative earnings	3,482,287	2,967,852
Cumulative distributions to stockholders	(4,269,072)	(3,958,534)
Total stockholders' equity	\$ 3,913,181	\$ 3,634,977
Total liabilities and stockholders' equity	\$ 25,179,926	\$ 21,222,070

(1) The Company's consolidated statements of financial condition include assets of consolidated variable interest entities ("VIEs") that can only be used to settle obligations and liabilities of the VIE for which creditors do not have

recourse to the primary beneficiary (Chimera Investment Corporation). As of September 30, 2018 and December 31, 2017, total assets of consolidated VIEs were \$13,703,646 and \$14,987,464, respectively, and total liabilities of consolidated VIEs were \$9,032,119 and \$9,631,820, respectively. See Note 8 for further discussion.

See accompanying notes to consolidated financial statements.

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CHIMERA INVESTMENT CORPORATION
CONSOLIDATED STATEMENTS OF OPERATIONS
(dollars in thousands, except share and per share data)
(Unaudited)

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Net interest income:				
Interest income ⁽¹⁾	\$321,715	\$ 296,813	\$925,282	\$ 836,801
Interest expense ⁽²⁾	174,671	140,358	485,189	388,544
Net interest income	147,044	156,455	440,093	448,257
Other-than-temporary impairments:				
Total other-than-temporary impairment losses	(772	)(784	)(1,871	)(4,245
Portion of loss recognized in other comprehensive income	(6,461	)(10,684	)(15,651	)(39,431
Net other-than-temporary credit impairment losses	(7,233	)(11,468	)(17,522	)(43,676
Other investment gains (losses):				
Net unrealized gains (losses) on derivatives	71,197	9,204	178,511	19,902
Realized gains (losses) on terminations of interest rate swaps	—	—	—	(16,143
Net realized gains (losses) on derivatives	2,881	(7,841	) 14,573	(28,680
Net gains (losses) on derivatives	74,078	1,363	193,084	(24,921
Net unrealized gains (losses) on financial instruments at fair value	(34,306	)19,042	(38,204	)159,047
Net realized gains (losses) on sales of investments	(6,123	)1	(3,956	)9,709
Gains (losses) on extinguishment of debt	9,263	(1	) 19,320	(48,016
Total other gains (losses)	42,912	20,405	170,244	95,819
Other expenses:				
Compensation and benefits	8,642	7,533	25,741	22,759
General and administrative expenses	5,615	4,537	16,964	13,162
Servicing fees	9,766	10,715	31,044	31,193
Deal expenses	1,372	3,357	4,555	16,054
Total other expenses	25,395	26,142	78,304	83,168
Income (loss) before income taxes	157,328	139,250	514,511	417,232
Income taxes	7	18	76	172
Net income (loss)	\$157,321	\$ 139,232	\$514,435	\$ 417,060
Dividend on preferred stock	9,960	9,400	28,760	24,083
Net income (loss) available to common shareholders	\$147,361	\$ 129,832	\$485,675	\$ 392,977
Net income (loss) per share available to common shareholders:				
Basic	\$0.79	\$ 0.69	\$2.59	\$ 2.09
Diluted	\$0.79	\$ 0.69	\$2.59	\$ 2.09
Weighted average number of common shares outstanding:				
Basic	187,006,777	187,779,794	187,182,932	187,773,715
Diluted	187,584,958	188,192,111	187,705,831	188,176,757
Dividends declared per share of common stock	\$0.50	\$ 0.50	\$1.50	\$ 1.50

(1) Includes interest income of consolidated VIEs of \$223,948 and \$241,195 for the quarters ended September 30, 2018 and 2017, respectively and interest income of consolidated VIEs of \$688,720 and \$668,621 for the nine months ended September 30, 2018 and 2017. See Note 8 to consolidated financial statements for further discussion.

(2) Includes interest expense of consolidated VIEs of \$99,622 and \$101,856 for the quarters ended September 30, 2018 and 2017, respectively and interest expense of consolidated VIEs of \$298,744 and \$290,264 for the nine months ended September 30, 2018 and 2017. See Note 8 to consolidated financial statements for further discussion.

See accompanying notes to consolidated financial statements.

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CHIMERA INVESTMENT CORPORATION
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)
(dollars in thousands, except share and per share data)
(Unaudited)

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Comprehensive income (loss):				
Net income (loss)	\$ 157,321	\$ 139,232	\$ 514,435	\$ 417,060
Other comprehensive income:				
Unrealized gains (losses) on available-for-sale securities, net	(50,728)	21,370	(181,885)	59,114
Reclassification adjustment for net losses included in net income for other-than-temporary credit impairment losses	7,233	11,468	17,522	43,676
Reclassification adjustment for net realized losses (gains) included in net income	(220)	(1)	(4,603)	(7,778)
Other comprehensive income (loss)	(43,715)	32,837	(168,966)	95,012
Comprehensive income (loss) before preferred stock dividends	\$ 113,606	\$ 172,069	\$ 345,469	\$ 512,072
Dividends on preferred stock	\$ 9,960	\$ 9,400	\$ 28,760	\$ 24,083
Comprehensive income (loss) available to common stock shareholders	\$ 103,646	\$ 162,669	\$ 316,709	\$ 487,989

CHIMERA INVESTMENT CORPORATION
CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY

(dollars in thousands, except per share data)

(Unaudited)

	Series A Preferred Stock Par Value	Series B Preferred Stock Par Value	Series C Preferred Stock Par Value	Common Stock Par Value	Additional Paid-in Capital	Accumulated Other Comprehensive Income	Cumulative Earnings	Cumulative Distributions to Stockholders	Total
Balance, December 31, 2016	\$ 58	\$ —	\$ —	\$ 1,877	\$ 3,508,779	\$ 718,106	\$ 2,443,184	\$(3,548,471)	\$3,123,533
Net income (loss)	—	—	—	—	—	—	417,060	—	417,060
Other comprehensive income (loss)	—	—	—	—	—	95,012	—	—	95,012
Stock based compensation	—	—	—	1	2,754	—	—	—	2,755
Common dividends declared	—	—	—	—	—	—	—	(282,275)	(282,275)
Preferred dividends declared	—	—	—	—	—	—	—	(24,083)	(24,083)
Issuance of preferred stock	—	130	—	—	314,299	—	—	—	314,429
Balance, September 30, 2017	\$ 58	\$ 130	\$ —	\$ 1,878	\$ 3,825,832	\$ 813,118	\$ 2,860,244	\$(3,854,829)	\$3,646,431
Balance, December 31, 2017	\$ 58	\$ 130	\$ —	\$ 1,878	\$ 3,826,691	\$ 796,902	\$ 2,967,852	\$(3,958,534)	\$3,634,977
Net income (loss)	—	—	—	—	—	—	514,435	—	514,435
Other comprehensive income (loss)	—	—	—	—	—	(168,966)	—	—	(168,966)
Repurchase of common stock	—	—	—	(8)	(14,826)	—	—	—	(14,834)
Stock based compensation	—	—	—	—	6,571	—	—	—	6,571
Common dividends declared	—	—	—	—	—	—	—	(281,778)	(281,778)
Preferred dividends declared	—	—	—	—	—	—	—	(28,760)	(28,760)
Issuance of preferred stock	—	—	104	—	251,432	—	—	—	251,536
Balance, September 30, 2018	\$ 58	\$ 130	\$ 104	\$ 1,870	\$ 4,069,868	\$ 627,936	\$ 3,482,287	\$(4,269,072)	\$3,913,181

See accompanying notes to consolidated financial statements.

CHIMERA INVESTMENT CORPORATION
CONSOLIDATED STATEMENTS OF CASH FLOWS

(dollars in thousands)

(Unaudited)

	For the Nine Months Ended	
	September 30,	September 30,
	2018	2017
Cash Flows From Operating Activities:		
Net income	\$514,435	\$417,060
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
(Accretion) amortization of investment discounts/premiums, net	22,421	(17,269)
Accretion (amortization) of deferred financing costs and securitized debt discounts/premiums, net	(9,957	)6,649
Amortization of swaption premium	1,316	5,468
Net unrealized losses (gains) on derivatives	(178,511	)(19,902)
Margin (paid) received on derivatives	27,653	(3,948)
Net unrealized losses (gains) on financial instruments at fair value	38,204	(159,047)
Net realized losses (gains) on sales of investments	3,956	(9,709)
Net other-than-temporary credit impairment losses	17,522	43,676
(Gain) loss on extinguishment of debt	(19,320	)48,016
Equity-based compensation expense	6,571	2,755
Changes in operating assets:		
Decrease (increase) in accrued interest receivable, net	(14,009	)(19,738)
Decrease (increase) in other assets	24,568	(5,076)
Changes in operating liabilities:		
Increase (decrease) in accounts payable and other liabilities	6,468	4,635
Increase (decrease) in accrued interest payable, net	48,426	15,631
Net cash provided by (used in) operating activities	\$489,743	\$309,201
Cash Flows From Investing Activities:		
Agency MBS portfolio:		
Purchases	\$(5,319,958	)\$(1,000,336)
Sales	16,184	693,207
Principal payments	346,476	332,140
Non-Agency RMBS portfolio:		
Purchases	(73,149	)(7,978)
Sales	19,928	5,045
Principal payments	440,722	459,854
Loans held for investment:		
Purchases	(1,339,514	)(5,835,799)
Sales	754,806	—
Principal payments	1,430,802	1,298,855
Net cash provided by (used in) investing activities	\$(3,723,703	)\$(4,055,012)
Cash Flows From Financing Activities:		
Proceeds from repurchase agreements	\$49,599,400	\$29,079,905
Payments on repurchase agreements	(45,705,850	)(27,970,987)
Net proceeds from preferred stock offerings	251,536	314,429
Payments on repurchase of common stock	(14,834)—
Proceeds from securitized debt borrowings, collateralized by loans held for investment	1,434,765	4,159,073
Payments on securitized debt borrowings, collateralized by loans held for investment	(1,927,854)(1,564,489)

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Payments on securitized debt borrowings, collateralized by Non-Agency RMBS	(36,633)(103,415)
Common dividends paid	(280,893	)(281,832)
Preferred dividends paid	(28,200)(26,532)
Net cash provided by (used in) financing activities	\$3,291,437	\$3,606,152	

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Net increase (decrease) in cash and cash equivalents	57,477	(139,659)
Cash and cash equivalents at beginning of period	63,569	177,714
Cash and cash equivalents at end of period	\$ 121,046	\$ 38,055
Supplemental disclosure of cash flow information:		
Interest received	\$933,693	\$799,808
Interest paid	\$446,806	\$366,284
Non-cash investing activities:		
Payable for investments purchased	\$903,424	\$733,142
Receivable for investments sold	\$—	\$11,235
Net change in unrealized gain (loss) on available-for sale securities	\$(168,966)	\$95,012
Retained beneficial interests	\$39,844	\$—
Non-cash financing activities:		
Dividends declared, not yet paid	\$96,809	\$95,000

See accompanying notes to consolidated financial statements.

CHIMERA INVESTMENT CORPORATION
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

1. Organization

Chimera Investment Corporation (the “Company”) was organized in Maryland on June 1, 2007. The Company commenced operations on November 21, 2007 when it completed its initial public offering. The Company elected to be taxed as a real estate investment trust (“REIT”) under the Internal Revenue Code of 1986, as amended, and regulations promulgated thereunder (the “Code”).

The Company conducts its operations through various subsidiaries including subsidiaries it treats as taxable REIT subsidiaries (“TRS”). In general, a TRS may hold assets and engage in activities that the Company cannot hold or engage in directly and generally may engage in any real estate or non-real estate related business. The Company currently has nine wholly owned direct subsidiaries: Chimera RMBS Whole Pool LLC, and Chimera RMBS LLC formed in June 2009; CIM Trading Company LLC (“CIM Trading”), formed in July 2010; Chimera Funding TRS LLC (“CIM Funding TRS”), a TRS formed in October 2013, Chimera CMBS Whole Pool LLC and Chimera RMBS Securities LLC formed in March 2015; Chimera Insurance Company, LLC formed in July 2015; Chimera RR Holding LLC formed in April 2016, and Anacostia LLC, a TRS formed in June 2018.

2. Summary of the Significant Accounting Policies

(a) Basis of Presentation and Consolidation

The accompanying consolidated financial statements and related notes of the Company have been prepared in accordance with accounting principles generally accepted in the United States (“GAAP”). In the opinion of management, all adjustments considered necessary for a fair presentation of the Company's financial position, results of operations and cash flows have been included. Certain prior period amounts have been reclassified to conform to the current period's presentation.

The consolidated financial statements include, the Company's accounts, the accounts of its wholly-owned subsidiaries, and variable interest entities (“VIEs”) in which the Company is the primary beneficiary. All intercompany balances and transactions have been eliminated in consolidation.

The Company uses securitization trusts considered to be VIEs in its securitization and re-securitization transactions. VIEs are defined as entities in which equity investors (i) do not have the characteristics of a controlling financial interest, or (ii) do not have sufficient equity at risk for the entity to finance its activities without additional subordinated financial support from other parties. The entity that consolidates a VIE is known as its primary beneficiary, and is generally the entity with (i) the power to direct the activities that most significantly impact the VIEs' economic performance, and (ii) the right to receive benefits from the VIE or the obligation to absorb losses of the VIE that could be significant to the VIE. For VIEs that do not have substantial on-going activities, the power to direct the activities that most significantly impact the VIEs' economic performance may be determined by an entity's involvement with the design and structure of the VIE.

The trusts are structured as entities that receive principal and interest on the underlying collateral and distribute those payments to the security holders. The assets held by the securitization entities are restricted in that they can only be used to fulfill the obligations of the securitization entity. The Company's risks associated with its involvement with these VIEs are limited to its risks and rights as a holder of the security it has retained.

Determining the primary beneficiary of a VIE requires judgment. The Company determined that for the securitizations it consolidates, its ownership provides the Company with the obligation to absorb losses or the right to receive benefits from the VIE that could be significant to the VIE. In addition, the Company has the power to direct the activities of the VIEs that most significantly impact the VIEs' economic performance ("power") such as rights to direct servicer activity or the Company was determined to have power in connection with its involvement with the structure and design of the VIE.

The Company's interest in the assets held by these securitization vehicles, which are consolidated on the Company's Statements of Financial Condition, is restricted by the structural provisions of these trusts, and a recovery of the Company's investment in the vehicles will be limited by each entity's distribution provisions. The liabilities of the securitization vehicles, which are also consolidated on the Company's Statements of Financial Condition, are non-recourse to the Company, and can only be satisfied from each securitization vehicle's respective asset pool.

The assets of securitization entities are comprised of residential mortgage backed securities (“RMBS”) or residential mortgage loans. See Notes 3, 4 and 8 for further discussion of the characteristics of the securities and loans in the Company’s portfolio.

(b) Statements of Financial Condition Presentation

The Company’s Consolidated Statements of Financial Condition include both the Company’s direct assets and liabilities and the assets and liabilities of consolidated securitization vehicles. Assets of each consolidated VIE can only be used to satisfy the obligations of that VIE, and the liabilities of consolidated VIEs are non-recourse to the Company. The Company is not obligated to provide, nor does it intend to provide, any financial support to these consolidated securitization vehicles. The notes to the consolidated financial statements describe the Company’s assets and liabilities including the assets and liabilities of consolidated securitization vehicles. See Note 8 for additional information related to the Company’s investments in consolidated securitization vehicles.

(c) Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Although the Company’s estimates contemplate current conditions and how it expects them to change in the future, it is reasonably possible that actual conditions could be materially different than anticipated in those estimates, which could have a material adverse impact on the Company’s results of operations and its financial condition. Management has made significant estimates including in accounting for income recognition and OTTI on Agency and Non-Agency RMBS and IO MBS (Note 3), valuation of Agency MBS and Non-Agency RMBS (Notes 3 and 5), residential mortgage loans (Note 4), securitized debt (Note 7) and derivative instruments (Notes 5 and 9). Actual results could differ materially from those estimates.

(d) Significant Accounting Policies

There have been no significant changes to the Company's accounting policies included in Note 2 to the consolidated financial statements of the Company’s Form 10-K for the year ended December 31, 2017, other than the significant accounting policies disclosed below.

Income Taxes

The Company does not have any unrecognized tax positions that would affect its financial statements or require disclosure. No accruals for penalties and interest were necessary as of September 30, 2018 or December 31, 2017.

Fair Value Disclosure

A complete discussion of the methodology utilized by the Company to estimate the fair value of its financial instruments is included in Note 5 to these consolidated financial statements.

(e) Recent Accounting Pronouncements

Fair Value Measurement - Changes to the Disclosure Requirements for Fair Value Measurement (Topic 820)

In August 2018, the FASB issued ASU No. 2018-13, Fair Value Measurement - Changes to the Disclosure Requirements for Fair Value Measurement. The amendments in this update modify the disclosure requirements on fair

value measurements in Topic 820, Fair Value Measurement. It eliminates disclosure requirements for transfers between Level 1 and Level 2 of the fair value hierarchy and policies related to valuation processes and the timing of transfers between levels of the fair value hierarchy. It adds the following disclosure requirements, but it exempts nonpublic entities from these requirements: i) The changes in unrealized gains and losses for the period included in other comprehensive income for recurring Level 3 fair value measurements of instruments held at the end of the reporting period and ii) For recurring and nonrecurring Level 3 fair value measurements, the range and weighted averages used to develop significant unobservable inputs and how the weighted average was calculated, with certain exceptions. The guidance in the ASU is effective for the Company as of January 1, 2019. Early adoption is allowed. The Company is not planning to early adopt and is currently evaluating what impact this update will have on the consolidated financial statements.

Income Statement - Reporting Comprehensive Income - (Topic 220)

In February 2018, the FASB issued ASU No. 2018-02, Income Statement - Reporting Comprehensive Income - Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income. The amendments in this update allow a reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the Tax Cuts and Jobs Act. Consequently, the amendments eliminate the stranded tax effects resulting from the Tax Cuts and Jobs Act and will improve the usefulness of information reported to financial statement users. However, because the amendments only relate to the reclassification of the income tax effects of the Tax Cuts and Jobs Act, the underlying guidance that requires that the effect of a change in tax laws or rates be included in income from continuing operations is not affected. The amendments in this Update also require certain disclosures about stranded tax effects. The guidance in the ASU is effective for the Company as of January 1, 2019. Early adoption is allowed. The Company is not planning to early adopt and is currently evaluating what impact this update will have on the consolidated financial statements.

Derivatives and Hedging - Targeted improvements to Accounting for Hedging Activities (Topic 815)

In August 2017, the FASB issued ASU No. 2017-12, Derivatives and Hedging - Targeted improvements to Accounting for Hedging Activities. This update is issued with the objective of improving the financial reporting of hedging relationships to better portray the economic results of an entity's risk management activities in its financial statements. In addition, the amendments in this update make certain targeted improvements to simplify the application of the hedge accounting guidance in current GAAP. The guidance in the ASU is effective for the Company as of January 1, 2019. Early adoption is allowed. The Company is not planning to early adopt and is currently evaluating what impact this update will have on the consolidated financial statements.

Financial Instruments - Credit Losses - (Topic 326)

In June 2016, the FASB issued ASU No. 2016-13, Measurement of Credit Losses on Financial Instruments. This update replaces the current model for recognizing credit losses from an incurred credit loss model to a current expected credit loss (CECL) model for instruments measured at amortized cost and requires entities to record allowances for available-for-sale (AFS) debt securities when the fair value of an AFS debt security is below the amortized cost of the asset rather than reduce the carrying amount, as the Company does under the current OTTI model. This update also simplifies the accounting model for purchased credit-impaired debt securities and loans. The changes in the allowances created in accordance with this update will be recorded in earnings. The update also expands the disclosure requirements regarding the Company's assumptions, models, and methods for estimating the expected credit losses. In addition, the Company will disclose the amortized cost balance for each class of financial asset by credit quality indicator, disaggregated by the year of origination. The guidance in the ASU is effective for the Company as of January 1, 2020. Early adoption is allowed, beginning January 1, 2019. The standard requires entities to record a cumulative-effect adjustment to the statement of financial position as of the beginning of the first reporting period in which the guidance is effective. The Company is not planning to early adopt and is currently evaluating what impact this update will have on the consolidated financial statements.

3. Mortgage-Backed Securities

The Company classifies its Non-Agency RMBS as senior, senior IO, subordinated, or subordinated IO. The Company also invests in residential, commercial and IO Agency MBS. Senior interests in Non-Agency RMBS are considered to be entitled to the first principal repayments in their pro-rata ownership interests at the acquisition date. The tables below present amortized cost, fair value and unrealized gain/losses of Company's MBS investments as of September 30, 2018 and December 31, 2017.

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September 30, 2018 (dollars in thousands)								
	Principal or Notional Value	Total Premium	Total Discount	Amortized Cost	Fair Value	Gross Unrealized Gains	Gross Unrealized Losses	Net Unrealized Gain/(Loss)
Non-Agency RMBS								
Senior	\$2,413,931	\$566	\$(1,148,263)	\$1,266,234	\$1,974,805	\$708,877	\$(306)	)\$708,571
Senior, interest-only	5,844,053	297,221	—	297,221	242,244	22,612	(77,589)	)(54,977)
Subordinated	379,077	8,985	(169,497)	218,565	278,022	59,949	(492)	)\$9,457
Subordinated, interest-only	244,298	10,648	—	10,648	12,636	2,081	(93)	)\$1,988
Agency MBS								
Residential	6,730,675	214,066	—	6,944,741	6,811,047	1,029	(134,723)	)(133,694)
Commercial	2,532,460	55,295	(4,542)	2,583,213	2,475,531	216	(107,898)	)(107,682)
Interest-only	2,865,073	123,635	—	123,635	119,514	862	(4,983)	)(4,121)
Total	\$21,009,567	\$710,416	\$(1,322,302)	\$11,444,257	\$11,913,799	\$795,626	\$(326,084)	)\$469,542

December 31, 2017 (dollars in thousands)								
	Principal or Notional Value	Total Premium	Total Discount	Amortized Cost	Fair Value	Gross Unrealized Gains	Gross Unrealized Losses	Net Unrealized Gain/(Loss)
Non-Agency RMBS								
Senior	\$2,733,926	\$540	\$(1,257,103)	\$1,477,363	\$2,231,415	\$754,234	\$(182)	)\$754,052
Senior, interest-only	4,862,461	262,996	—	262,996	210,850	15,761	(67,907)	)(52,146)
Subordinated	501,455	10,571	(177,206)	334,820	401,225	66,704	(299)	)\$66,405
Subordinated, interest-only	201,378	7,369	—	7,369	7,826	902	(445)	)\$457
Agency MBS								
Residential	2,227,128	123,245	—	2,350,373	2,322,180	5,706	(33,899)	)(28,193)
Commercial	1,894,594	47,430	(4,685)	1,937,339	1,938,281	17,041	(16,099)	)\$942
Interest-only	3,021,840	111,277	—	111,277	104,367	834	(7,744)	)(6,910)
Total	\$15,442,782	\$563,428	\$(1,438,994)	\$6,481,537	\$7,216,144	\$861,182	\$(126,575)	)\$734,607

The table below presents changes in accretable yield, or the excess of the security's cash flows expected to be collected over the Company's investment, solely as it pertains to the Company's Non-Agency RMBS portfolio accounted for according to the provisions of ASC 310-30.

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Balance at beginning of period	\$1,266,640	\$1,383,188	\$1,303,590	\$1,550,110
Purchases	4,444	8,196	10,178	18,380
Yield income earned	(57,078)	)(66,042)	)(174,595)	)(202,618)
Reclassification (to) from non-accretable difference	32,022	53,884	113,517	15,777
Sales and deconsolidation	(1,733)	)(17,755)	)(8,395)	)(20,178)
Balance at end of period	\$1,244,295	\$1,361,471	\$1,244,295	\$1,361,471

The table below presents the outstanding principal balance and related amortized cost at September 30, 2018 and December 31, 2017 as it pertains to the Company's Non-Agency RMBS portfolio accounted for according to the provisions of ASC 310-30.

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	For the Nine Months Ended September 30, 2018	For the Year Ended December 31, 2017
(dollars in thousands)		
Outstanding principal balance:		
Beginning of period	\$2,673,350	\$3,138,265
End of period	\$2,378,436	\$2,673,350
Amortized cost:		
Beginning of period	\$1,381,839	\$1,695,079
End of period	\$1,180,207	\$1,381,839

The following tables present the gross unrealized losses and estimated fair value of the Company's RMBS by length of time that such securities have been in a continuous unrealized loss position at September 30, 2018 and December 31, 2017. All securities in an unrealized loss position have been evaluated by the Company for OTTI as discussed in Note 2(d) of 2017, Form 10-K.

	September 30, 2018 (dollars in thousands)								
	Unrealized Loss Position for Less than 12 Months			Unrealized Loss Position for 12 Months or More			Total		
	Estimated Fair Value	Unrealized Losses	Number of Positions	Estimated Fair Value	Unrealized Losses	Number of Positions	Estimated Fair Value	Unrealized Losses	Number of Positions
Non-Agency RMBS									
Senior	\$37,480	\$(306)	)2	\$—	\$—	—	\$37,480	\$(306)	)2
Senior, interest-only	33,026	(5,155)	)34	87,805	(72,434)	)93	120,831	(77,589)	)127
Subordinated	16,590	(492)	)10	—	—	6	16,590	(492)	)16
Subordinated, interest-only	408	(31)	)2	386	(62)	)1	794	(93)	)3
Agency MBS									
Residential	4,889,446	(30,727)	)68	1,794,683	(103,996)	)106	6,684,129	(134,723)	)174
Commercial	2,033,817	(82,812)	)608	414,565	(25,086)	)150	2,448,382	(107,898)	)758
Interest-only	8,472	(197)	)4	41,016	(4,786)	)14	49,488	(4,983)	)18
Total	\$7,019,239	\$(119,720)	)728	\$2,338,455	\$(206,364)	)370	\$9,357,694	\$(326,084)	)1,098

	December 31, 2017 (dollars in thousands)								
	Unrealized Loss Position for Less than 12 Months			Unrealized Loss Position for 12 Months or More			Total		
	Estimated Fair Value	Unrealized Losses	Number of Positions	Estimated Fair Value	Unrealized Losses	Number of Positions	Estimated Fair Value	Unrealized Losses	Number of Positions

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Non-Agency RMBS									
Senior	\$35,229	\$(182)1	\$—	\$—	—	\$35,229	\$(182)1
Senior, interest-only	28,129	(1,724)27	120,120	(66,183)120	148,249	(67,907)147
Subordinated	235	(38	)7	6,261	(261	)5	6,496	(299	)12
Subordinated, interest-only	—	—	—	945	(445	)3	945	(445	)3
Agency MBS									
Residential	660,103	(5,197	)21	1,471,464	(28,702	)93	2,131,567	(33,899	)114
Commercial	830,889	(11,695	)176	161,980	(4,404	)91	992,869	(16,099	)267
Interest-only	15,142	(641	)7	57,875	(7,103	)24	73,017	(7,744	)31
Total	\$1,569,727	\$(19,477	)239	\$1,818,645	\$(107,098	)336	\$3,388,372	\$(126,575	)575

At September 30, 2018, the Company did not intend to sell any of its RMBS that were in an unrealized loss position, and it was not more likely than not that the Company would be required to sell these RMBS before recovery of their amortized cost

basis, which may be at their maturity. With respect to RMBS held by consolidated VIEs, the ability of any entity to cause the sale by the VIE prior to the maturity of these RMBS is either expressly prohibited, not probable, or is limited to specified events of default, none of which have occurred as of September 30, 2018.

Gross unrealized losses on the Company's Agency residential and commercial MBS (excluding Agency MBS which are reported at fair value with changes in fair value recorded in earnings) were \$138 million and \$41 million as of September 30, 2018 and December 31, 2017, respectively. Given the inherent credit quality of Agency MBS, the Company does not consider any of the current impairments on its Agency MBS to be credit related. In evaluating whether it is more likely than not that it will be required to sell any impaired security before its anticipated recovery, which may be at their maturity, the Company considers the significance of each investment, the amount of impairment, the projected future performance of such impaired securities, as well as the Company's current and anticipated leverage capacity and liquidity position. Based on these analyses, the Company determined that at September 30, 2018 and December 31, 2017, unrealized losses on its Agency MBS were temporary.

Gross unrealized losses on the Company's Non-Agency RMBS (excluding Non-Agency MBS which are reported at fair value with changes in fair value recorded in earnings) were \$596 thousand and \$283 thousand at September 30, 2018 and December 31, 2017, respectively. Based upon the most recent evaluation, the Company does not consider these unrealized losses to be indicative of OTTI and does not believe that these unrealized losses are credit related, but rather are due to other factors. The Company has reviewed its Non-Agency RMBS 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 cash flows expected to be collected for such RMBS, which considers recent bond performance and expected future performance of the underlying collateral.

A summary of the OTTI included in earnings for the quarters and nine months ended September 30, 2018 and 2017 are presented below.

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
	(dollars in thousands)		(dollars in thousands)	
Total other-than-temporary impairment losses	\$ (772)	\$ (784)	\$ (1,871)	\$ (4,245)
Portion of loss recognized in other comprehensive income (loss)	(6,461)	(10,684)	(15,651)	(39,431)
Net other-than-temporary credit impairment losses	\$ (7,233)	\$ (11,468)	\$ (17,522)	\$ (43,676)

The following table presents a roll forward of the credit loss component of OTTI on the Company's Non-Agency RMBS for which a portion of loss was recognized in OCI. The table delineates between those securities that are recognizing OTTI for the first time as opposed to those that have previously recognized OTTI.

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
	(dollars in thousands)		(dollars in thousands)	
Cumulative credit loss beginning balance	\$ 582,661	\$ 571,639	\$ 591,521	\$ 556,485
Additions:				
Other-than-temporary impairments not previously recognized	4,929	—	6,069	12,399
Reductions for securities sold or deconsolidated during the period	(1,032)	(4,965)	(5,980)	(12,405)
	2,304	11,468	11,453	29,302

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Increases related to other-than-temporary impairments on securities with previously recognized other-than-temporary impairments				
Reductions for increases in cash flows expected to be collected over the remaining life of the securities	(2,237	)(3,241	)(16,438	)(10,880
Cumulative credit impairment loss ending balance	\$586,625	\$ 574,901	\$586,625	\$ 574,901

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Cash flows generated to determine net other-than-temporary credit impairment losses recognized in earnings are estimated using significant unobservable inputs. The significant inputs used to measure the component of OTTI recognized in earnings for the Company's Non-Agency RMBS for the periods reported are summarized as follows:

	For the Nine Months Ended	
	September 30, 2018	September 30, 2017
Loss Severity		
Weighted Average	63%	67%
Range	34% - 132%	28% - 89%
60+ days delinquent		
Weighted Average	21%	21%
Range	13% - 30%	11% - 27%
Credit Enhancement ⁽¹⁾		
Weighted Average	24%	15%
Range	0% - 55%	0% - 50%
3 Month CPR		
Weighted Average	12%	13%
Range	0% - 39%	2% - 24%
12 Month CPR		
Weighted Average	12%	13%
Range	1% - 28%	4% - 19%

(1) Calculated as the combined credit enhancement to the Re-REMIC and underlying from each of their respective capital structures.

The following tables present a summary of unrealized gains and losses at September 30, 2018 and December 31, 2017.

	September 30, 2018 (dollars in thousands)					
	Gross Unrealized Gain Included in Accumulated Other Comprehensive Income	Gross Unrealized Gain Included in Cumulative Earnings	Total Gross Unrealized Gain	Gross Unrealized Loss Included in Accumulated Other Comprehensive Income	Gross Unrealized Loss Included in Cumulative Earnings	Total Gross Unrealized Loss
Non-Agency RMBS						
Senior	\$ 708,877	\$—	\$ 708,877	\$ (306	) \$—	\$(306)
Senior, interest-only	—	22,612	22,612	—	(77,589	)(77,589)
Subordinated	56,780	3,169	59,949	(290	) (202	)(492)
Subordinated, interest-only	—	2,081	2,081	—	(93	)(93)
Agency MBS						
Residential	1,029	—	1,029	(82,889	) (51,834	)(134,723)
Commercial	24	192	216	(55,289	) (52,609	)(107,898)
Interest-only	—	862	862	—	(4,983	)(4,983)
Total	\$ 766,710	\$28,916	\$ 795,626	\$ (138,774	) \$(187,310	)(326,084)

	December 31, 2017 (dollars in thousands)					
	Gross Unrealized Included in Accumulated Other Comprehensive Income	Gross Gain Included in Cumulative Earnings	Total Gross Unrealized Gain	Gross Unrealized Loss Included in Other Comprehensive Income	Gross Unrealized Loss Included in Cumulative Earnings	Total Gross Unrealized Loss
Non-Agency RMBS						
Senior	\$ 754,234	\$—	\$ 754,234	\$ (182)	\$—	\$(182)
Senior, interest-only	—	15,761	15,761	—	(67,907)	(67,907)
Subordinated	62,989	3,715	66,704	(102)	(197)	(299)
Subordinated, interest-only	—	902	902	—	(445)	(445)
Agency MBS						
Residential	5,706	—	5,706	(29,083)	(4,816)	(33,899)
Commercial	15,462	1,579	17,041	(12,122)	(3,977)	(16,099)
Interest-only	—	834	834	—	(7,744)	(7,744)
Total	\$ 838,391	\$ 22,791	\$ 861,182	\$ (41,489)	\$(85,086)	\$(126,575)

Changes in prepayments, actual cash flows, and cash flows expected to be collected, among other items, are affected by the collateral characteristics of each asset class. The Company chooses assets for the portfolio after carefully evaluating each investment's risk profile.

The following tables provide a summary of the Company's MBS portfolio at September 30, 2018 and December 31, 2017.

	September 30, 2018						
	Principal or Notional Value at Period-End (dollars in thousands)	Weighted Average Amortized Cost Basis	Weighted Average Fair Value	Weighted Average Coupon	Weighted Average Yield at Period-End (1)		
Non-Agency RMBS							
Senior	\$2,413,931	\$ 52.46	\$ 81.81	4.9 %	18.8 %		
Senior, interest-only	5,844,053	5.09	4.15	1.2 %	9.1 %		
Subordinated	379,077	57.66	73.34	4.3 %	11.0 %		
Subordinated, interest-only	244,298	4.36	5.17	1.2 %	16.1 %		
Agency MBS							
Residential pass-through	6,730,675	103.18	101.19	4.0 %	3.5 %		
Commercial pass-through	2,532,460	102.00	97.75	3.6 %	3.4 %		
Interest-only	2,865,073	4.32	4.17	0.8 %	4.1 %		

(1) Bond Equivalent Yield at period end.

December 31, 2017

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	Principal or Notional Value at Period-End (dollars in thousands)	Weighted Average Cost Basis	Weighted Average Fair Value	Weighted Average Coupon	Weighted Average Yield at Period-End (1)	Weighted Average Yield at Period-End (1)	Weighted Average Yield at Period-End (1)
Non-Agency RMBS							
Senior	\$2,733,926	\$ 54.04	\$ 81.62	4.6 %	16.7 %		
Senior, interest-only	4,862,461	5.41	4.34	1.3 %	8.0 %		
Subordinated	501,455	66.77	80.01	4.1 %	9.6 %		
Subordinated, interest-only	201,378	3.66	3.89	0.8 %	11.8 %		
Agency MBS							
Residential pass-through	2,227,128	105.53	104.27	3.8 %	2.9 %		
Commercial pass-through	1,894,594	102.26	102.31	3.6 %	3.2 %		
Interest-only	3,021,840	3.68	3.45	0.7 %	3.4 %		

(1) Bond Equivalent Yield at period end.

The following table presents the weighted average credit rating of the Company's Non-Agency RMBS portfolio at September 30, 2018 and December 31, 2017 based on fair value. Previously issued financial statement filings were based on unpaid principal balances. We believe fair value provides an improved representation of the credit rating distribution of the Company's Non-Agency RMBS portfolio.

	September 30, 2018		December 31, 2017	
AAA	0.6	%	—	%
AA	—	%	—	%
A	0.3	%	—	%
BBB	0.5	%	0.5	%
BB	0.9	%	0.7	%
B	0.5	%	0.6	%
Below B	60.7	%	63.1	%
Not Rated	36.5	%	35.1	%
Total	100.0	%	100.0	%

Actual maturities of MBS are generally shorter than the stated contractual maturities. Actual maturities of the Company's MBS are affected by the contractual lives of the underlying mortgages, periodic payments of principal and prepayments of principal. The following tables provide a summary of the fair value and amortized cost of the Company's MBS at September 30, 2018 and December 31, 2017 according to their estimated weighted-average life classifications. The weighted-average lives of the MBS in the tables below are based on lifetime expected prepayment rates using an industry prepayment model for the Agency MBS portfolio and the Company's prepayment assumptions for the Non-Agency RMBS. The prepayment model considers current yield, forward yield, steepness of the interest rate curve, current mortgage rates, mortgage rates of the outstanding loan, loan age, margin, and volatility.

	September 30, 2018 (dollars in thousands)				
	Weighted Average Life				
	Less than one year	Greater than one year and less than five years	Greater than five years and less than ten years	Greater than ten years	Total
Fair value					
Non-Agency RMBS					
Senior	\$8,436	\$546,137	\$755,517	\$664,715	\$1,974,805
Senior interest-only	1,028	37,826	91,620	111,770	242,244
Subordinated	—	42,800	119,021	116,201	278,022
Subordinated interest-only	—	8,464	1,877	2,295	12,636
Agency MBS					
Residential	—	358,386	6,437,979	14,682	6,811,047
Commercial	—	15,565	27,791	2,432,175	2,475,531
Interest-only	48,247	51,701	19,566	—	119,514
Total fair value	\$57,711	\$1,060,879	\$7,453,371	\$3,341,838	\$11,913,799
Amortized cost					
Non-Agency RMBS					
Senior	\$8,295	\$399,944	\$437,177	\$420,818	\$1,266,234

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Senior interest-only	2,821	49,856	114,891	129,653	297,221
Subordinated	—	31,679	86,181	100,705	218,565
Subordinated interest-only	—	6,790	1,710	2,148	10,648
Agency MBS					
Residential	—	361,065	6,568,266	15,410	6,944,741
Commercial	—	15,649	29,525	2,538,039	2,583,213
Interest-only	48,086	56,265	19,284	—	123,635
Total amortized cost	\$59,202	\$921,248	\$7,257,034	\$3,206,773	\$11,444,257

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December 31, 2017

(dollars in thousands)

Weighted Average Life

	Less than one year	Greater than one year and less than five years	Greater than five years and less than ten years	Greater than ten years	Total
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Fair value

Non-Agency RMBS

Senior	\$2,179	\$681,086	\$910,234	\$637,916	\$2,231,415
Senior interest-only	19	54,107	72,702	84,022	210,850
Subordinated	—	75,495	121,555	204,175	401,225
Subordinated interest-only	—	7,165	661	—	7,826
Agency MBS					
Residential	—	21,777	2,300,403	—	2,322,180
Commercial	—	45,770	16,559	1,875,952	1,938,281
Interest-only	—	74,490	25,271	4,606	104,367
Total fair value	\$2,198	\$959,890	\$3,447,385	\$2,806,671	\$7,216,144

Amortized cost

Non-Agency RMBS

Senior	\$2,124	\$493,965	\$569,458	\$411,816	\$1,477,363
Senior interest-only	1,271	73,758	94,145	93,822	262,996
Subordinated	—	61,987	91,044	181,789	334,820
Subordinated interest-only	—	6,355	1,014	—	7,369
Agency MBS					
Residential	—	22,069	2,328,304	—	2,350,373
Commercial	—	47,170	17,176	1,872,993	1,937,339
Interest-only	—	79,356	27,582	4,339	111,277
Total amortized cost	\$3,395	\$784,660	\$3,128,723	\$2,564,759	\$6,481,537

The Non-Agency RMBS portfolio is subject to credit risk. The Non-Agency RMBS portfolio is primarily collateralized by Alt-A first lien mortgages. An Alt-A mortgage is a type of U.S. mortgage that, for various reasons, is considered riskier than A-paper, or prime, and less risky than subprime, the riskiest category. Alt-A interest rates, which are determined by credit risk, therefore tend to be between those of prime and subprime home loans. Typically, Alt-A mortgages are characterized by borrowers with less than full documentation, lower credit scores and higher loan-to-value ratios. At origination of the loan, Alt-A mortgage securities are defined as Non-Agency RMBS where (i) the underlying collateral has weighted average FICO scores between 680 and 720 or (ii) the FICO scores are greater than 720 and RMBS have 30% or less of the underlying collateral composed of full documentation loans. At September 30, 2018 and December 31, 2017, 59% and 66% of the Non-Agency RMBS collateral was classified as Alt-A, respectively. At September 30, 2018 and December 31, 2017, 25% and 13% of the Non-Agency RMBS collateral was classified as prime, respectively. The remaining Non-Agency RMBS collateral is classified as subprime.

The Non-Agency RMBS in the Portfolio have the following collateral characteristics at September 30, 2018 and December 31, 2017.

	September 30, 2018	December 31, 2017
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Weighted average maturity (years)	21.3		20.7			
Weighted average amortized loan to value ⁽¹⁾	63.3	%	64.4	%		
Weighted average FICO ⁽²⁾	712		697			
Weighted average loan balance (in thousands)	\$ 315		\$ 314			
Weighted average percentage owner occupied	84.3	%	84.4	%		
Weighted average percentage single family residence	62.6	%	66.3	%		
Weighted average current credit enhancement	1.4	%	2.2	%		
Weighted average geographic concentration of top four states	CA	33.5	%	CA	31.7	%
	FL	7.8	%	NY	8.5	%
	NY	7.4	%	FL	8.3	%
	NJ	2.2	%	NJ	2.7	%

(1) Value represents appraised value of the collateral at the time of loan origination.

(2) FICO as determined at the time of loan origination.

The table below presents the origination year of the underlying loans related to the Company's portfolio of Non-Agency RMBS at September 30, 2018 and December 31, 2017 based on fair value. Previously issued financial statement filings were based on unpaid principal balances. We believe fair value provides an improved representation of the origination years of the Company's Non-Agency RMBS portfolio.

Origination Year	September 30, 2018		December 31, 2017	
2003 and prior	1.4	%	1.6	%
2004	1.6	%	0.9	%
2005	13.2	%	12.5	%
2006	48.3	%	46.4	%
2007	32.2	%	36.5	%
2008	—	%	0.6	%
2009 and later	3.3	%	1.5	%
Total	100.0	%	100.0	%

Gross realized gains and losses are recorded in "Net realized gains (losses) on sales of investments" on the Company's Consolidated Statements of Operations. The proceeds and gross realized gains and gross realized losses from sales of investments for the quarters and nine months ended September 30, 2018 and 2017 are as follows:

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Proceeds from sales	\$32,050	\$ 598,752	\$64,601	\$ 772,496
Gross realized gains	1,489	6,902	5,872	17,468
Gross realized losses	(7,713)	(6,901)	(9,929)	(7,759)
Net realized gain (loss)	\$(6,224)	\$ 1	\$(4,057)	\$ 9,709

Included in the gross realized gains for the quarter and nine months ended September 30, 2018 in the table above are exchanges of securities with a fair value of \$7 million and \$28 million. The Company exchanged its investment in a Re-REMIC security for the underlying collateral supporting the group related to the exchanged asset. These exchanges were treated as non-cash sales and purchases and resulted in a realized gain of \$114 thousand and \$2 million, respectively, reflected in earnings for the quarter and nine months ended September 30, 2018. For the quarter and nine months ended September 30, 2017, the fair value of these exchanges of securities was \$36 million and \$63 million, and resulted in a realized gain of \$4 million and \$9 million, respectively.

4. Loans Held for Investment

The Loans held for investment are comprised primarily of loans collateralized by seasoned subprime residential mortgages. Additionally, it includes non-conforming, single family, owner occupied, jumbo, prime residential mortgages.

At September 30, 2018, all Loans held for investment are carried at fair value. See Note 5 for a discussion on how the Company determines the fair values of the Loans held for investment. As changes in the fair value of these loans are reflected in earnings, the Company does not estimate or record a loan loss provision. The total amortized cost of our Loans held for investment was \$12.4 billion and \$13.3 billion as of September 30, 2018 and December 31, 2017,

respectively.

The following table provides a summary of the changes in the carrying value of Loans held for investment at fair value at September 30, 2018 and December 31, 2017:

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	For the Nine Months Ended September 30, 2018	For the Year Ended December 31, 2017
	(dollars in thousands)	
Balance, beginning of period	\$ 13,678,263	\$ 8,753,653
Purchases	1,339,514	6,539,765
Principal paydowns	(1,430,802)	(1,788,409)
Sales and settlements	(808,314)	2,876
Net periodic accretion (amortization)	(66,254)	(35,803)
Realized gains (losses) on sales and settlements	101	—
Change in fair value	17,051	206,181
Balance, end of period	\$ 12,729,559	\$ 13,678,263

The primary cause of the change in fair value is due to market demand and changes in credit risk of mortgage loans. During the nine months ended September 30, 2018, the Company purchased \$415 million of loans which were subsequently sold to a trust and securitized, with the Company retaining \$39 million of beneficial interests. There were no gains or losses incurred from the sale of these assets.

Residential mortgage loans

The loan portfolio for all residential mortgages were originated during the following years:

Origination Year	September 30, 2018		December 31, 2017	
2002 and prior	7.4	%	7.5	%
2003	6.6	%	6.7	%
2004	13.9	%	14.6	%
2005	19.9	%	20.4	%
2006	23.0	%	23.1	%
2007	19.5	%	19.0	%
2008	6.1	%	6.0	%
2009	0.9	%	0.7	%
2010 and later	2.7	%	2.0	%
Total	100.0	%	100.0	%

The following table presents a summary of key characteristics of the residential loan portfolio at September 30, 2018 and December 31, 2017:

	September 30, 2018		December 31, 2017	
Number of loans	139,756		149,172	
Weighted average maturity (years)	18.6		18.8	
Weighted average loan to value ⁽¹⁾	87.6	%	88.0	%
Weighted average FICO ⁽¹⁾	630		631	
Weighted average loan balance (in thousands)	\$ 90		\$ 91	
Weighted average percentage owner occupied	90.0	%	95.0	%
Weighted average percentage single family residence	86.2	%	86.0	%
Weighted average geographic concentration of top five states	CA 9.0	%	CA 9.0	%
	FL 7.3	%	FL 7.2	%

OH	6.0	%	OH	6.1	%
NY	5.7	%	PA	5.6	%
PA	5.6	%	VA	5.5	%

(1) As provided by the Trustee.

The following table summarizes the outstanding principal balance of the residential loan portfolio which are 30 days delinquent and greater as reported by the servicer at September 30, 2018 and December 31, 2017.

	30 Days Delinquent (dollars in thousands)	60 Days Delinquent	90+ Days Delinquent	Bankruptcy	Foreclosure	REO	Total	Unpaid Principal/Notional
September 30, 2018	\$775,039	\$273,203	\$398,434	\$236,787	\$256,682	\$41,723	\$1,981,868	\$12,566,422
% of Unpaid Principal Balance	6.2%	2.2%	3.2%	1.9%	2.0%	0.3%	15.8%	
December 31, 2017	\$888,535	\$353,810	\$435,876	\$272,778	\$200,376	\$31,008	\$2,182,383	\$13,525,820
% of Unpaid Principal Balance	6.6%	2.6%	3.2%	2.0%	1.5%	0.2%	16.1%	

The fair value of residential mortgage loans 90 days or more past due was \$559 million and \$577 million as of September 30, 2018 and December 31, 2017, respectively.

Real estate owned

Real estate owned (“REO”) represents properties which the Company has received the legal title of the property to satisfy the outstanding loan. REO is re-categorized from loan to REO when the Company takes legal title of the property. REO assets are measured and reported at the estimated fair value less the estimated cost to sell at the end of each reporting period. At the time the asset is re-categorized, any difference between the previously recorded loan balance and the carrying value of the REO at the time the Company takes legal title of the property, is recognized as an unrealized gain or loss. All REO assets of the Company are held-for-sale and it is the Company’s intention to sell the property in the shortest time possible to maximize their return and recovery on the previously recorded loan. The carrying value of REO assets at September 30, 2018 and December 31, 2017 was \$18 million and \$10 million, respectively, and were recorded in Other Assets on the Company’s consolidated statements of financial condition.

5. Fair Value Measurements

The Company applies fair value guidance in accordance with GAAP to account for its financial instruments. The Company categorizes its financial instruments, based on the priority of the inputs to the valuation technique, into a three-level fair value hierarchy. The fair value hierarchy gives the highest priority to quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). If the inputs used to measure the financial instruments fall within different levels of the hierarchy, the categorization is based on the lowest level input that is significant to the fair value measurement of the instrument. Financial assets and liabilities recorded at fair value on the Consolidated Statements of Financial Condition or disclosed in the related notes are categorized based on the inputs to the valuation techniques as follows:

Level 1 – inputs to the valuation methodology are quoted prices (unadjusted) for identical assets and liabilities in active markets.

Level 2 – inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, and inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument.

Level 3 – inputs to the valuation methodology are unobservable and significant to fair value.

Fair value measurements categorized within Level 3 are sensitive to changes in the assumptions or methodology used to determine fair value and such changes could result in a significant increase or decrease in the fair value. Any changes to the valuation methodology are reviewed by management to ensure the changes are appropriate. As markets and products evolve and the pricing for certain products becomes more transparent, the Company will continue to refine its valuation methodologies. The methodology utilized by the Company for the periods presented is unchanged. The methods used to produce a fair value calculation may not be indicative of net realizable value or reflective of future fair values. Furthermore, the Company believes its valuation methods are appropriate and consistent with other market participants. Using different

methodologies, or assumptions, to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date. The Company uses inputs that are current as of the measurement date, which may include periods of market dislocation, during which price transparency may be reduced.

During times of market dislocation, the observability of prices and inputs can be difficult for certain investments. If third party pricing services are unable to provide a price for an asset, or if the price provided by them is deemed unreliable by the Company, then the asset will be valued at its fair value as determined by the Company without validation to third-party pricing. Illiquid investments typically experience greater price volatility as an active market does not exist. Observability of prices and inputs can vary significantly from period to period and may cause instruments to change classifications within the three level hierarchy.

A description of the methodologies utilized by the Company to estimate the fair value of its financial instruments by instrument class follows:

Agency MBS and Non-Agency RMBS

The Company determines the fair value of all of its investment securities based on discounted cash flows utilizing an internal pricing model that incorporates factors such as coupon, prepayment speeds, loan size, collateral composition, borrower characteristics, expected interest rates, life caps, periodic caps, reset dates, collateral seasoning, delinquency, expected losses, expected default severity, credit enhancement, and other pertinent factors. To corroborate that the estimates of fair values generated by these internal models are reflective of current market prices, the Company compares the fair values generated by the model to non-binding independent prices provided by two independent third party pricing services. For certain highly liquid asset classes, such as Agency fixed-rate pass-through bonds, the Company's valuations are also compared to quoted prices for To-Be-Announced ("TBA") securities.

Each quarter the Company develops thresholds which are determined utilizing current bid/ask spreads, liquidity, price volatility and other factors as appropriate. If internally developed model prices differ from the independent prices provided by greater than a market derived predetermined threshold for the period, the Company highlights these differences for further review, both internally and with the third party pricing service. The Company obtains the inputs used by the third party pricing services and compares them to the Company's inputs. The Company updates its own inputs if the Company determines the third party pricing inputs more accurately reflect the current market environment. If the Company believes that its internally developed inputs more accurately reflect the current market environment, it will request that the third party pricing service review market factors that may not have been considered by the third party pricing service and provide updated prices. The Company reconciles and resolves all pricing differences in excess of the predetermined thresholds before a final price is established. At September 30, 2018, thirteen investment holdings with an internally developed fair value of \$125 million had a difference between the model generated prices and third party prices provided in excess of the derived predetermined threshold for the period. The internally developed prices were \$7 million lower than the third party prices provided of \$132 million. After review and discussion, the Company affirmed and valued the investments at the lower internally developed prices. No other differences were noted at September 30, 2018 in excess of the derived predetermined threshold for the period. At December 31, 2017, four investment holdings with an internally developed fair value of \$25 million had a difference between the model generated prices and third party prices provided in excess of the derived predetermined threshold for the period. The internally developed prices were \$3 million lower than the third party prices provided of \$28 million. After review and discussion, the Company affirmed and valued the investments at the lower internally developed prices.

The Company's estimate of prepayment, default and severity curves all involve judgment and assumptions that are deemed to be significant to the fair value measurement process, which renders the resulting Non-Agency RMBS fair value estimates Level 3 inputs in the fair value hierarchy. As the fair values of Agency MBS are more observable, these investments are classified as level 2 in the fair value hierarchy.

Loans Held for Investment

Loans consisting of seasoned subprime residential mortgage loans:

The Company estimates the fair value of its Loans held for investment consisting of seasoned subprime residential mortgage loans on a loan by loan basis using an internally developed model which compares the loan held by the Company with a loan currently offered in the market. The loan price is adjusted in the model by considering the loan factors which would impact the value of a loan. These loan factors include: loan coupon as compared to coupon currently available in the market, FICO, loan-to-value ratios, delinquency history, owner occupancy, and property type, among other factors. A baseline is developed for each significant loan factor and adjusts the price up or down depending on how that factor for each specific loan compares to the

baseline rate. Generally, the most significant impact on loan value is the loan interest rate as compared to interest rates currently available in the market and delinquency history. These two factors are based on relevant observable inputs.

The Company also monitors market activity to identify trades which may be used to compare internally developed prices; however, as the portfolio of loans held at fair value is a seasoned subprime pool of mortgage loans, comparable loan pools are not common or directly comparable. There are limited transactions in the market place to develop a comprehensive direct range of values.

The Company reviews the fair values generated by the model to determine whether prices are reflective of the current market by corroborating its estimates of fair value by comparing the results to non-binding independent prices provided by two independent third party pricing services for the loan portfolio. Each quarter the Company develops thresholds which are determined utilizing the securitization market.

If the internally developed fair values of the loan pools differ from the independent prices provided by greater than a predetermined threshold for the period, the Company highlights these differences for further review, both internally and with the third party pricing service. The Company obtains certain inputs used by the third party pricing services and evaluates them for reasonableness. The Company updates its own model if the Company determines the third party pricing inputs more accurately reflect the current market environment or observed information from the third party vendors. If the Company believes that its internally developed inputs more accurately reflect the current market environment, it will request that the third party pricing service review market factors that may not have been considered by the third party pricing service. The Company reconciles and resolves all pricing differences in excess of the predetermined thresholds before a final price is established.

At September 30, 2018, the internally developed fair value of a loan pool of \$220 million had a difference between the model generated prices and third party prices provided in excess of the derived predetermined threshold for the period. The internally developed price was \$17 million higher than the third party price provided of \$203 million. After review and discussion, the Company affirmed and valued the investment at the higher internally developed price. At December 31, 2017, there were no pricing differences in excess of the predetermined thresholds between the model generated prices and third party prices.

The Company's estimates of fair value of Loans held for investment involve management judgment and assumptions that are deemed to be significant to the fair value measurement process, which renders the resulting fair value estimates level 3 inputs in the fair value hierarchy.

Loans collateralized by jumbo, prime residential mortgages:

The loans collateralized by jumbo, prime residential mortgages are carried at fair value. The loans are held as part of a consolidated Collateralized Financing Entity ("CFE"). A CFE is a variable interest entity that holds financial assets, issues beneficial interests in those assets and has no more than nominal equity and the beneficial interests have contractual recourse only to the related assets of the CFE. Accounting guidance for CFEs allow the Company to elect to measure the CFE's financial assets using the fair value of the CFE's financial liabilities as the fair values of the financial liabilities of the CFE are more observable. Therefore, the fair value of the loans collateralized by jumbo, prime residential mortgages is based on the fair value of the financial liabilities. See discussion of the fair value of Securitized Debt, collateralized by Loans Held for Investment at fair value below.

As the more observable financial liabilities are considered level 3 in the fair value hierarchy, the Loans collateralized by jumbo, prime residential mortgages are also level 3 in the fair value hierarchy.

Securitized Debt, collateralized by Non-Agency RMBS

The Company carries securitized debt, collateralized by Non-Agency RMBS at the principal balance outstanding plus unamortized premiums, less unaccreted discounts recorded in connection with the financing of the loans or RMBS with third parties. The Company estimates the fair value of securitized debt, collateralized by Non-Agency RMBS by estimating the future cash flows associated with the underlying assets collateralizing the secured debt outstanding. The Company models the fair value of each underlying asset by considering, among other items, the structure of the underlying security, coupon, servicer, delinquency, actual and expected defaults, actual and expected default severities, reset indices, and prepayment speeds in conjunction with market research for similar collateral performance and management's expectations of general economic conditions in the sector and other economic factors. This process, including the review process, is consistent with the process used for Agency MBS and Non-Agency RMBS using internal models. For further discussion of the valuation process and benchmarking process, see Agency MBS and Non-Agency RMBS discussion herein.

The Company's estimates of fair value of securitized debt, collateralized by Non-Agency RMBS involve management's judgment and assumptions that are deemed to be significant to the fair value measurement process, which renders the resulting fair value estimates level 3 inputs in the fair value hierarchy.

Securitized Debt, collateralized by Loans Held for Investment

The process for determining the fair value of securitized debt, collateralized by loans held for investment is based on discounted cash flows utilizing an internal pricing model that incorporates factors such as coupon, prepayment speeds, loan size, collateral composition, borrower characteristics, expected interest rates, life caps, periodic caps, reset dates, collateral seasoning, expected losses, expected default severity, credit enhancement, and other pertinent factors. This process, including the review process, is consistent with the process used for Agency MBS and Non-Agency RMBS using internal models. For further discussion of the valuation process and benchmarking process, see Agency MBS and Non-Agency RMBS discussion herein.

The Company's estimates of fair value of securitized debt, collateralized by loans held for investment involve management's judgment and assumptions that are deemed to be significant to the fair value measurement process, which renders the resulting fair value estimates level 3 inputs in the fair value hierarchy.

Fair value option

The table below shows the unpaid principal, fair value and impact of change in fair value on each of the financial instruments carried with fair value option as of September 30, 2018 and December 31, 2017 respectively:

	September 30, 2018 (dollars in thousands)			
	Unpaid Principal/ Notional	Fair Value	Quarter to Date Gain/(Loss) on Change in Fair Value	Year to Date Gain/(Loss) on Change in Fair Value
Assets:				
Non-agency RMBS				
Subordinated	N/A	\$ 11,951	\$ (109)	\$ (549)
Senior, interest-only	5,844,053	242,244	(4,340)	(2,830)
Subordinated, interest-only	244,298	12,636	785	1,531
Agency MBS				
Residential Pass-through	5,273,851	5,349,358	(37,748)	(47,018)
Commercial Pass-through	1,240,957	1,207,148	(17,072)	(50,020)
Interest-only	2,865,073	119,514	2,916	2,789
Loans held for investment, at fair value	12,566,422	12,729,559	(4,462)	17,051
Liabilities:				
Securitized debt at fair value, collateralized by loans held for investment	8,913,270	8,826,879	25,724	40,842

	December 31, 2017 (dollars in thousands)		Quarter to	Year to
	Unpaid Principal/ Notional	Fair Value	Date Gain/(Loss) on Change in Fair Value	Date Gain/(Loss) on Change in Fair Value
Assets:				
Non-agency RMBS				
Subordinated	N/A	\$ 13,993	\$ (545)	\$ 1,246
Senior, interest-only	4,862,461	210,850	3,156	(13,290)
Subordinated, interest-only	201,378	7,826	1,836	2,311
Agency MBS				
Residential Pass-through	577,522	602,829	(2,359)	(4,816)
Commercial Pass-through	564,379	570,105	(546)	(2,398)
Interest-only	3,021,840	104,367	(367)	465
Loans held for investment, at fair value	13,525,820	13,678,263	(65,643)	206,181
Liabilities:				
Securitized debt at fair value, collateralized by loans held for investment	9,395,854	9,388,657	16,831	(78,289)

Derivatives

Interest Rate Swaps and Swaptions

The Company uses clearing exchange market prices to determine the fair value of its exchange cleared interest rate swaps. For bi-lateral swaps, the Company determines the fair value based on the net present value of expected future cash flows on the swap. The Company uses option pricing model to determine the fair value of its swaptions. For bi-lateral swaps and swaptions, the Company compares its own estimate of fair value with counterparty prices to evaluate for reasonableness. Both the clearing exchange and counter-party pricing quotes, incorporate common market pricing methods, including a spread measurement to the Treasury yield curve or interest rate swap curve as well as underlying characteristics of the particular contract. Interest rate swaps and swaptions are modeled by the Company by incorporating such factors as the term to maturity, swap curve, overnight index swap rates, and the payment rates on the fixed portion of the interest rate swaps. The Company has classified the characteristics used to determine the fair value of interest rate swaps and swaptions as Level 2 inputs in the fair value hierarchy.

Treasury Futures

The fair value of Treasury futures is determined by quoted market prices in an active market. The Company has classified the characteristics used to determine the fair value of Treasury futures as Level 1 inputs in the fair value hierarchy.

Repurchase Agreements

Repurchase agreements are collateralized financing transactions utilized by the Company to acquire investment securities. Due to the short term nature of these financial instruments, the Company estimates the fair value of these repurchase agreements using the contractual obligation plus accrued interest payable.

Short-term Financial Instruments

The carrying value of cash and cash equivalents, accrued interest receivable, dividends payable, payable for investments purchased and accrued interest payable are considered to be a reasonable estimate of fair value due to the short term nature and low credit risk of these short-term financial instruments.

The Company's financial assets and liabilities carried at fair value on a recurring basis, including the level in the fair value hierarchy, at September 30, 2018 and December 31, 2017 are presented below.

	September 30, 2018 (dollars in thousands)				
	Level 1	Level 2	Level 3	Counterparty and Cash Collateral, netting	Total
Assets:					
Non-Agency RMBS, at fair value	\$—	—	-\$2,507,707	\$—	\$2,507,707
Agency MBS, at fair value	—	-\$9,406,092	—	—	9,406,092
Loans held for investment, at fair value	—	—	12,729,559	—	12,729,559
Derivatives	6,239,562	—	—	(70,727)	155,069
Liabilities:					
Securitized debt at fair value, collateralized by loans held for investment	—	—	8,826,879	—	8,826,879
Derivatives	—	—	—	(8)	—
	December 31, 2017 (dollars in thousands)				
	Level 1	Level 2	Level 3	Counterparty and Cash Collateral, netting	Total
Assets:					
Non-Agency RMBS, at fair value	\$—	—	-\$2,851,316	\$—	\$2,851,316
Agency MBS, at fair value	—	-\$4,364,828	—	—	4,364,828
Loans held for investment, at fair value	—	—	13,678,263	—	13,678,263
Derivatives	3,463,978	—	—	(1,617)	48,914
Liabilities:					
Securitized debt at fair value, collateralized by loans held for investment	—	—	9,388,657	—	9,388,657
Derivatives	—	—	—	(1,617)	320

The table below provides a summary of the changes in the fair value of securities classified as Level 3 at September 30, 2018 and December 31, 2017.

Fair Value Reconciliation, Level 3

	For the Nine Months Ended, September 30, 2018 (dollars in thousands)		
	Non-Agency RMBS	Loans held for investment	Securitized Debt
Beginning balance Level 3 assets	\$2,851,316	\$13,678,263	\$9,388,657
Transfers in to Level 3 assets	—	—	—
Transfers out of Level 3 assets	—	—	—
Purchases of assets/ issuance of debt	141,479	1,339,514	1,434,765
Principal payments	(440,722)	(1,430,802)	(1,366,901)
Sales and Settlements	(48,412)	(808,314)	(560,954)
Net accretion (amortization)	76,317	(66,254)	(8,526)
Gains (losses) included in net income			
Other than temporary credit impairment losses	(17,522)	—	—
Realized gains (losses) on sales and settlements	(1,019)	101	(19,320)
Net unrealized gains (losses) included in income	(1,850)	17,051	(40,842)
Gains (losses) included in other comprehensive income			
Total unrealized gains (losses) for the period	(51,880)	—	—
Ending balance Level 3 assets	\$2,507,707	\$12,729,559	\$8,826,879

Fair Value Reconciliation, Level 3

	For the Year Ended, December 31, 2017 (dollars in thousands)		
	Non-Agency RMBS	Loans held for investment	Securitized Debt
Beginning balance Level 3 assets	\$3,330,063	\$8,753,653	\$6,941,097
Transfers in to Level 3 assets	6,112	—	—
Transfers out of Level 3 assets	—	—	—
Purchases of assets/ issuance of debt	78,400	6,539,765	5,173,430
Principal payments	(568,339)	(1,788,409)	(1,787,368)
Sales and Settlements	(68,162)	2,876	(1,056,765)
Net accretion (amortization)	120,119	(35,803)	4,701
Gains (losses) included in net income			
Other than temporary credit impairment losses	(59,881)	—	—
Realized gains (losses) on sales and settlements	12,031	—	35,273
Net unrealized gains (losses) included in income	(9,733)	206,181	78,289
Gains (losses) included in other comprehensive income			
Total unrealized gains (losses) for the period	10,706	—	—
Ending balance Level 3 assets	\$2,851,316	\$13,678,263	\$9,388,657

There were no transfers in or out from Level 3, during the quarter ended September 30, 2018. There were \$6 million of IOs transferred to Level 3 and no transfers out from Level 3 for the year ended December 31, 2017. The primary cause of the changes in fair value of the loans and the securitized debt are due to market demand for these instruments and changes in credit risk of the portfolio.

The significant unobservable inputs used in the fair value measurement of the Company's Non-Agency RMBS and securitized debt are the weighted average discount rates, constant prepayment speed ("CPR"), cumulative default rate, and the loss severity.

Constant Prepayment Rates

For securitized debt carried at fair value issued at a premium, as prepayment speeds increase, the amount of interest expense the Company recognizes decreases as the issued premium on the debt amortizes faster than expected.

Conversely, decreases in prepayment speeds result in increased expense and can extend the period over which the Company amortizes the premium.

For debt issued at a discount, as prepayment speeds increase, the amount of interest the Company expenses increases from the acceleration of the accretion of the discount into interest expense. Conversely, decreases in prepayment speeds result in decreased expense as the accretion of the discount into interest expense occurs over a longer period.

Constant Default Rates

Constant default rates represent an annualized rate of default on a group of mortgages. The constant default rate (“CDR”) represents the percentage of outstanding principal balances in the pool that are in default, which typically equates to the home being past 60-day and 90-day notices and in the foreclosure process. When default rates increase, expected cash flows on the underlying collateral decreases. When default rates decrease, expected cash flows on the underlying collateral increases.

Loss Severity

Loss severity rates reflect the amount of loss expected from a foreclosure and liquidation of the underlying collateral in the mortgage loan pool. When a mortgage loan is foreclosed the collateral is sold and the resulting proceeds are used to settle the outstanding obligation. In many circumstances, the proceeds from the sale do not fully repay the outstanding obligation. In these cases, a loss is incurred by the lender. Loss severity is used to predict how costly future losses are likely to be. An increase in loss severity results in a decrease in expected future cash flows. A decrease in loss severity results in an increase in expected future cash flows.

Discount Rate

The discount rate refers to the interest rate used in the discounted cash flow analysis to determine the present value of future cash flows. The discount rate takes into account not just the time value of money, but also the risk or uncertainty of future cash flows. An increased uncertainty of future cash flows results in a higher discount rate. The discount rate used to calculate the present value of the expected future cash flows is based on the discount rate implicit in the security as of the last measurement date. As discount rates move up, the discounted cash flows are reduced.

Sensitivity of Significant Inputs – Non-Agency RMBS and securitized debt, collateralized by loans held for investment

Prepayment speeds, as reflected by the CPR, vary according to interest rates, the type of financial instrument, conditions in financial markets, and other factors, none of which can be predicted with any certainty. In general, when interest rates rise, it is relatively less attractive for borrowers to refinance their mortgage loans, and as a result, prepayment speeds tend to decrease. When interest rates fall, prepayment speeds tend to increase. For RMBS investments purchased at a premium, as prepayment speeds increase, the amount of income the Company earns decreases as the purchase premium on the bonds amortizes faster than expected. Conversely, decreases in prepayment speeds result in increased income and can extend the period over which the Company amortizes the purchase premium. For RMBS investments purchased at a discount, as prepayment speeds increase, the amount of income the Company earns increases from the acceleration of the accretion of the discount into interest income. Conversely, decreases in prepayment speeds result in decreased income as the accretion of the purchase discount into interest income occurs over a longer period.

A summary of the significant inputs used to estimate the fair value of Non-Agency RMBS held for investment at fair value as of September 30, 2018 and December 31, 2017 follows:

September 30, 2018
Significant Inputs

December 31, 2017
Significant Inputs

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	Weighted Average Discount Rate	CPR Range	CDR	Loss Severity	Weighted Average Discount Rate	CPR Range	CDR	Loss Severity
Non-Agency RMBS								
Senior	4.6%	2% -22%	0% -59%	35% -95%	4.4%	1% -45%	0% -55%	35% -89%
Senior interest-only	10.3%	3% -35%	0% -54%	30% -95%	11.2%	3% -25%	0% -50%	35% -95%
Subordinated	5.6%	1% -20%	0% -34%	10% -68%	5.8%	1% -20%	0% -33%	35% -69%
Subordinated interest-only	11.7%	5% -35%	0% -18%	35% -59%	12.0%	6% -22%	0% -9%	35% -63%

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A summary of the significant inputs used to estimate the fair value of securitized debt at fair value, collateralized by loans held for investment, as of September 30, 2018 and December 31, 2017 follows:

	September 30, 2018 Significant Inputs			December 31, 2017 Significant Inputs				
	Weighted Average Discount Rate	CPR Range	CDR Range	Loss Severity Range	Weighted Average Discount Rate	CPR Range	CDR Range	Loss Severity Range
Securitized debt at fair value, collateralized by loans held for investment	4.8%	6% - 15%	0% - 14%	30% - 60%	4.1%	6% - 15%	0% - 6%	35% - 60%

All of the significant inputs listed have some degree of market observability, based on the Company's knowledge of the market, information available to market participants, and use of common market data sources. Collateral default and loss severity projections are in the form of "curves" that are updated quarterly to reflect the Company's collateral cash flow projections. Methods used to develop these projections conform to industry conventions. The Company uses assumptions it considers its best estimate of future cash flows for each security.

Constant Prepayment Rates

The prepayment speed specifies the percentage of the collateral balance that is expected to prepay at each point in the future. The prepayment speed is based on factors such as collateral FICO score, loan-to-value ratio, debt-to-income ratio, and vintage on a loan level basis and is scaled up or down to reflect recent collateral-specific prepayment experience as obtained from remittance reports and market data services.

Constant Default Rates

Default vectors are determined from the current "pipeline" of loans that are more than 30 days delinquent, in foreclosure, bankruptcy, or are REO. These delinquent loans determine the first 30 months of the default curve. Beyond month 30, the default curve transitions to a value that is reflective of a portion of the current delinquency pipeline.

Loss Severity

The curve generated to reflect the Company's expected loss severity is based on collateral-specific experience with consideration given to other mitigating collateral characteristics. Characteristics such as seasoning are taken into consideration because severities tend to initially increase on newly originated securities, before beginning to decline as the collateral ages and eventually stabilize. Collateral characteristics such as loan size, loan-to-value, and geographic location of collateral also effect loss severity.

Discount Rate

The discount rates applied to the expected cash flows to determine fair value are derived from a range of observable prices on securities backed by similar collateral. As the market becomes more or less liquid, the availability of these observable inputs will change.

Sensitivity of Significant Inputs – Loans held for investment

The Loans held for investment are comprised primarily of loans collateralized by seasoned subprime residential mortgages. Additionally, it includes non-conforming, single family, owner occupied, jumbo, prime residential

mortgages. The significant unobservable inputs used to estimate the fair value of the Loans held for investment collateralized by seasoned subprime residential mortgage loans, as of September 30, 2018 and December 31, 2017 include coupon, FICO score at origination, loan-to-value ratios (LTV), owner occupancy status, and property type. A summary of the significant inputs used to estimate the fair value of Loans held for investment collateralized by seasoned subprime mortgages at fair value as of September 30, 2018 and December 31, 2017 follows:

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	September 30, 2018	December 31, 2017
Factor:		
Coupon		
Base Rate	5.0%	4.8%
Actual	6.9%	6.9%
FICO		
Base Rate	636	636
Actual	627	627
Loan-to-value (LTV)		
Base Rate	88%	89%
Actual	88%	88%
Loan Characteristics:		
Occupancy		
Owner Occupied	90%	95%
Investor	1%	1%
Secondary	9%	4%
Property Type		
Single family	87%	87%
Manufactured housing	3%	4%
Multi-family/mixed use/other	10%	9%

The loan factors are generally not observable for the individual loans and the base rates developed by the Company's internal model are subjective and change as market conditions change. The impact of the loan coupon on the value of the loan is dependent on whether the loan is clean or reperforming. A clean loan, with no history of delinquent payments and a relatively high loan interest rate would result in a higher overall value than a reperforming loan which has a history of delinquency. Similarly, a higher FICO score and a lower LTV ratio results in increases in the fair market value of the loan and a lower FICO score and a higher LTV ratio results in a lower value.

Property types also affect the overall loan values. Property types include single family, manufactured housing and multi-family/mixed use and other types of properties. Single family homes represent properties which house one to four family units. Manufactured homes include mobile homes and modular homes. Loan value for properties that are investor or secondary homes have a reduced value as compared to the baseline loan value. Additionally, single family homes will result in an increase to the loan value where manufactured and multi-family/mixed use and other properties will result in a decrease to the loan value, as compared to the baseline.

Financial instruments not carried at fair value

The following table presents the carrying value and fair value, as described above, of the Company's financial instruments not carried at fair value on a recurring basis at September 30, 2018 and December 31, 2017.

	September 30, 2018		
	(dollars in thousands)		
	Level in Fair Value Hierarchy	Carrying Amount	Fair Value
Repurchase agreements	2	11,143,102	11,179,959
Securitized debt, collateralized by Non-Agency RMBS	3	167,718	148,075

	December 31, 2017 (dollars in thousands)	Carrying Amount	Fair Value
	Level in Fair Value Hierarchy		
Repurchase agreements	2	7,250,452	7,269,193
Securitized debt, collateralized by Non-Agency RMBS	3	205,780	192,259

6. Repurchase Agreements

The interest rates of the Company's repurchase agreements are generally indexed to the one-month and three-month LIBOR rates and re-price accordingly. The repurchase agreements outstanding, weighted average borrowing rates, weighted average remaining maturities, average daily balances and the fair value of collateral pledged as of September 30, 2018 and December 31, 2017 were:

	September 30, 2018	December 31, 2017	
Repurchase agreements outstanding secured by:			
Agency MBS (in thousands)	\$7,693,487	\$3,202,056	
Non-agency MBS and Loans held for investment (in thousands)	3,449,615	4,048,396	
Total:	\$11,143,102	\$7,250,452	
Average balance of Repurchase agreements secured by:			
Agency MBS (in thousands)	\$4,866,565	\$3,120,474	
Non-agency MBS and Loans held for investment (in thousands)	3,775,862	3,203,700	
Total:	\$8,642,427	\$6,324,174	
Average borrowing rate of Repurchase agreements secured by:			
Agency MBS	2.25	% 1.47	%
Non-agency MBS and Loans held for investment	3.87	% 3.41	%
Average remaining maturity of Repurchase agreements secured by:			
Agency MBS	31 Days	28 Days	
Non-agency MBS and Loans held for investment	101 Days	93 Days	
Average original maturity of Repurchase agreements secured by:			
Agency MBS	87 Days	87 Days	
Non-agency MBS and Loans held for investment	127 Days	123 Days	
MBS pledged as collateral at fair value on Repurchase agreements:			
Agency MBS (in thousands)	\$8,154,919	\$3,450,123	
Non-agency MBS and Loans held for investment (in thousands)	4,458,726	5,338,557	
Total:	\$12,613,645	\$8,788,680	

At September 30, 2018 and December 31, 2017, the repurchase agreements collateralized by MBS and Loans held for investment had the following remaining maturities.

	September 30, 2018	December 31, 2017
	(dollars in thousands)	
Overnight	\$123,417	\$—
1 to 29 days	4,622,550	4,745,342
30 to 59 days	3,832,236	1,206,769
60 to 89 days	1,208,344	592,865
90 to 119 days	25,196	—
Greater than or equal to 120 days	1,331,359	705,476
Total	\$11,143,102	\$7,250,452

At September 30, 2018, there was no amount at risk with any counterparty greater than 10% of the Company's equity. At December 31, 2017, the Company had an amount at risk with Credit Suisse of 12% of its equity related to the collateral posted on repurchase agreements. As of December 31, 2017, the weighted average maturity of the repurchase agreements with Credit Suisse was 25 days and the amount at risk was \$451 million. There were no other amounts at risk with any other counterparties greater than 10% of the Company's equity as of December 31, 2017.

7. Securitized Debt

All of the Company's securitized debt is collateralized by residential mortgage loans or Non-Agency RMBS. For financial reporting purposes, the Company's securitized debt is accounted for as secured borrowings. Thus, the residential mortgage loans or RMBS held as collateral are recorded in the assets of the Company as Loans held for investment or Non-Agency RMBS and the securitized debt is recorded as a non-recourse liability in the accompanying Consolidated Statements of Financial Condition.

Securitized Debt Collateralized by Non-Agency RMBS

At September 30, 2018 and December 31, 2017 the Company's securitized debt collateralized by Non-Agency RMBS is carried at amortized cost and had a principal balance of \$183 million and \$219 million, respectively. At September 30, 2018 and December 31, 2017, the debt carried a weighted average coupon equal to 6.4% and 6.2%, respectively. As of September 30, 2018, the maturities of the debt range between the years 2035 and 2037. None of the Company's securitized debt collateralized by Non-Agency RMBS is callable.

There were no securitized debt collateralized by Non-Agency RMBS acquisitions during the quarters and nine months ended September 30, 2018. During the quarter ended September 30, 2017, the Company acquired securitized debt collateralized by Non-Agency RMBS with an amortized cost balance of \$166 thousand for \$167 thousand. This transaction resulted in a net loss on the extinguishment of debt of \$1 thousand, which is reflected in earnings for the quarter and nine months ended September 30, 2017.

The following table presents the estimated principal repayment schedule of the securitized debt collateralized by Non-Agency RMBS at September 30, 2018 and December 31, 2017, based on expected cash flows of the residential mortgage loans or RMBS, as adjusted for projected losses on the underlying collateral of the debt. All of the securitized debt recorded in the Company's Consolidated Statements of Financial Condition is non-recourse to the Company.

	September 30, 2018	December 31, 2017
	(dollars in thousands)	
Within One Year	\$26,494	\$42,217

One to Three Years	34,560	45,916
Three to Five Years	8,184	16,524
Greater Than Five Years	3,797	4,867
Total	\$73,035	\$ 109,524

Maturities of the Company's securitized debt collateralized by Non-Agency RMBS are dependent upon cash flows received from the underlying loans. The estimate of their repayment is based on scheduled principal payments on the underlying loans. This estimate will differ from actual amounts to the extent prepayments or loan losses are experienced. See Note 3 for a more detailed discussion of the securities collateralizing the securitized debt.

Securitized Debt Collateralized by Loans Held for Investment

At September 30, 2018 and December 31, 2017 the Company's securitized debt collateralized by loans held for investment had a principal balance of \$8.9 billion and \$9.4 billion, respectively. At September 30, 2018 and December 31, 2017 the total securitized debt collateralized by loans held for investment carried a weighted average coupon equal to 4.5% and 4.2%, respectively. As of September 30, 2018, the maturities of the debt range between the years 2023 and 2067.

During the quarter ended September 30, 2018, the Company acquired securitized debt collateralized by loans with an amortized cost balance of \$277 million for \$268 million. This transaction resulted in a net gain on the extinguishment of debt of \$9 million, which is reflected in earnings for the quarter ended September 30, 2018. During the nine months ended September 30, 2018, the Company acquired securitized debt collateralized by loans with an amortized cost balance of \$580 million for \$561 million. These transactions resulted in a net gain on the extinguishment of debt of \$19 million, which is reflected in earnings for the nine months ended September 30, 2018.

The Company did not acquire any securitized debt collateralized by loans during the quarter ended September 30, 2017. During the nine months ended September 30, 2017, the Company acquired securitized debt collateralized by loans with an amortized cost balance of \$197 million for \$245 million. This transaction resulted in a net loss on the extinguishment of debt of \$48 million. As the Company's securitized debt is carried at fair value with changes in fair value reflected in earnings some of this loss was recognized during prior periods.

The following table presents the estimated principal repayment schedule of the securitized debt collateralized by loans held for investment at September 30, 2018 and December 31, 2017, based on expected cash flows of the residential mortgage loans or RMBS, as adjusted for projected losses on the underlying collateral of the debt. All of the securitized debt recorded in the Company's Consolidated Statements of Financial Condition is non-recourse to the Company.

	September 30, 2018	December 31, 2017
	(dollars in thousands)	
Within One Year	\$1,711,897	\$1,819,018
One to Three Years	2,705,310	2,872,572
Three to Five Years	2,022,622	2,140,434
Greater Than Five Years	2,282,689	2,439,872
Total	\$8,722,518	\$9,271,896

Maturities of the Company's securitized debt collateralized by loans held for investment are dependent upon cash flows received from the underlying loans. The estimate of their repayment is based on scheduled principal payments on the underlying loans. This estimate will differ from actual amounts to the extent prepayments or loan losses are experienced. See Note 4 for a more detailed discussion of the loans collateralizing the securitized debt.

Certain of the securitized debt collateralized by loans held for investment contain call provisions at the option of the Company. The following table presents the par value of the callable debt by year at September 30, 2018.

September 30,
2018
(dollars in
thousands)
Year Principal
2018 \$273,458

2019 342,018
2020 4,391,354
2021 3,290,213
2022 284,775
2023 136,846
Total \$8,718,664

8. Consolidated Securitization Vehicles and Other Variable Interest Entities

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Since its inception, the Company has utilized VIEs for the purpose of securitizing whole mortgage loans or re-securitizing RMBS and obtaining long-term, non-recourse financing. The Company evaluated its interest in each VIE to determine if it is the primary beneficiary.

As of September 30, 2018, the Company's Consolidated Statement of Financial Condition includes assets of consolidated VIEs with a carrying value of \$13.7 billion and liabilities with a carrying value of \$9.0 billion. As of December 31, 2017, the Company's Consolidated Statement of Financial Condition includes assets of consolidated VIEs with a carrying value of \$15.0 billion and liabilities with a carrying value of \$9.6 billion.

VIEs for Which the Company is the Primary Beneficiary

The retained beneficial interests in VIEs for which the Company is the primary beneficiary are typically the subordinated tranches of these re-securitizations and in some cases the Company may hold interests in additional tranches. The table below reflects the assets and liabilities recorded in the Consolidated Statements of Financial Condition related to the consolidated VIEs as of September 30, 2018 and December 31, 2017.

	September 30, 2018	December 31, 2017
	(dollars in thousands)	
Assets:		
Non-Agency RMBS, at fair value	\$ 1,065,125	\$ 1,579,793
Loans held for investment, at fair value	12,516,707	13,263,338
Accrued interest receivable	74,118	75,489
Other assets	47,696	68,844
Liabilities:		
Securitized debt, collateralized by Non-Agency RMBS	\$ 167,718	\$ 205,780
Securitized debt at fair value, collateralized by loans held for investment	8,826,879	9,388,657
Accrued interest payable	34,318	33,870
Other liabilities	3,204	3,513

Income, OTTI and expense amounts related to consolidated VIEs recorded in the Consolidated Statements of Operations is presented in the tables below.

	For the Quarters Ended	
	September 30, 2018	September 30, 2017
	(dollars in thousands)	
Interest income, Assets of consolidated VIEs	\$ 223,948	\$ 241,195
Interest expense, Non-recourse liabilities of VIEs	99,622	101,856
Net interest income	\$ 124,326	\$ 139,339
Total other-than-temporary impairment losses	\$(665)	\$(668)
Portion of loss recognized in other comprehensive income (loss)	(6,518)	(10,108)
Net other-than-temporary credit impairment losses	\$(7,183)	\$(10,776)
Servicing fees	\$9,541	\$ 10,492

	For the Nine Months Ended	
	September 30, 2018	September 30, 2017
	(dollars in thousands)	
Interest income, Assets of consolidated VIEs	\$688,720	\$ 668,621
Interest expense, Non-recourse liabilities of VIEs	298,744	290,264
Net interest income	\$389,976	\$ 378,357
Total other-than-temporary impairment losses	\$(1,016)	\$(1,777)
Portion of loss recognized in other comprehensive income (loss)	(15,079)	(35,720)
Net other-than-temporary credit impairment losses	\$(16,095)	\$(37,497)
Servicing fees	\$29,674	\$ 30,970

VIEs for Which the Company is Not the Primary Beneficiary

The Company is not required to consolidate VIEs in which it has concluded it does not have a controlling financial interest, and thus is not the primary beneficiary. In such cases, the Company does not have both the power to direct the entities' most significant activities and the obligation to absorb losses or right to receive benefits that could potentially be significant to the VIEs. The Company's investments in these unconsolidated VIEs are carried in Non-Agency RMBS on the Consolidated Statements of Financial Condition and include senior and subordinated bonds issued by the VIEs. The fair value of the Company's investments in each unconsolidated VIEs at September 30, 2018, ranged from less than \$1 million to \$55 million, with an aggregate amount of \$1.4 billion. The fair value of the Company's investments in each unconsolidated VIEs at December 31, 2017, ranged from less than \$1 million to \$52 million, with an aggregate amount of \$1.3 billion. The Company's maximum exposure to loss from these unconsolidated VIEs was \$1.2 billion at September 30, 2018 and December 31, 2017. The maximum exposure to loss was determined as the amortized cost of the unconsolidated VIE, which represents the purchase price of the investment adjusted by any unamortized premiums or discounts as of the reporting date.

9. Derivative Instruments

In connection with the Company's interest rate risk management strategy, the Company economically hedges a portion of its interest rate risk by entering into derivative financial instrument contracts in the form of interest rate swaps, swaptions, and Treasury futures. The Company's swaps are used to lock in a fixed rate related to a portion of its current and anticipated payments on its repurchase agreements. The Company typically agrees to pay a fixed rate of interest ("pay rate") in exchange for the right to receive a floating rate of interest ("receive rate") over a specified period of time. Treasury futures are derivatives which track the prices of specific Treasury securities and are traded on an active exchange. It is generally the Company's policy to close out any Treasury futures positions prior to taking delivery of the underlying security. The Company uses Treasury futures to lock in a fixed rate related to a portion of its current and anticipated payments on its repurchase agreements.

The use of derivatives creates exposure to credit risk relating to potential losses that could be recognized if the counterparties to these instruments fail to perform their obligations under the contracts. In the event of a default by the counterparty, the Company could have difficulty obtaining its RMBS or cash pledged as collateral for these derivative instruments. The Company periodically monitors the credit profiles of its counterparties to determine if it is exposed to counterparty credit risk. See Note 14 for further discussion of counterparty credit risk.

The table below summarizes the location and fair value of the derivatives reported in the Consolidated Statements of Financial Condition after counterparty netting and posting of cash collateral as of September 30, 2018 and December 31, 2017.

September 30, 2018					
Derivative Instruments	Notional Amount Outstanding	Derivative Assets		Derivative Liabilities	
		Location on Consolidated Statements of Financial Condition	Net Estimated Fair Value/Carrying Value	Location on Consolidated Statements of Financial Condition	Net Estimated Fair Value/Carrying Value
(dollars in thousands)					
Interest Rate Swaps	\$9,037,650	Derivatives, at fair value, net	\$ 147,695	Derivatives, at fair value, net	\$ —
Swaptions	53,000	Derivatives, at fair value, net	2,747	Derivatives, at fair value, net	—
Treasury Futures	619,700	Derivatives, at fair value, net	4,627	Derivatives, at fair value, net	—
Total	\$9,710,350		\$ 155,069		\$ —

December 31, 2017					
Derivative Instruments	Notional Amount Outstanding	Derivative Assets		Derivative Liabilities	
		Location on Consolidated Statements of Financial Condition	Net Estimated Fair Value/Carrying Value	Location on Consolidated Statements of Financial Condition	Net Estimated Fair Value/Carrying Value
(dollars in thousands)					
Interest Rate Swaps	\$3,816,400	Derivatives, at fair value, net	\$ 43,257	Derivatives, at fair value, net	\$ —
Swaptions	391,000	Derivatives, at fair value, net	2,105	Derivatives, at fair value, net	(320)
Treasury Futures	619,700	Derivatives, at fair value, net	3,552	Derivatives, at fair value, net	—
Total	\$4,827,100		\$ 48,914		\$ (320)

The effect of the Company's derivatives on the Consolidated Statements of Operations is presented below.

Derivative Instruments	Location on Consolidated Statements of Operations and Comprehensive Income	Net gains (losses) on derivatives for the quarters ended	
		September 30, 2018	September 30, 2017
(dollars in thousands)			
Interest Rate Swaps	Net unrealized gains (losses) on derivatives	\$67,422	\$ 5,001
Interest Rate Swaps	Net realized gains (losses) on derivatives ⁽¹⁾	242	(3,491)
Treasury Futures	Net unrealized gains (losses) on derivatives	3,285	3,467
Treasury Futures	Net realized gains (losses) on derivatives	2,799	(3,267)
Swaptions	Net unrealized gains (losses) on derivatives	490	736
Swaptions	Net realized gains (losses) on derivatives	(160)	(1,083)
Total		\$74,078	\$ 1,363

Derivative Instruments	Location on Consolidated Statements of Operations and Comprehensive Income	Net gains (losses) on derivatives for the nine months ended	
		September 30, 2018	September 30, 2017
		(dollars in thousands)	
Interest Rate Swaps	Net unrealized gains (losses) on derivatives	\$ 173,550	\$ 15,694
Interest Rate Swaps	Net realized gains (losses) on derivatives ⁽¹⁾	(1,125)	(27,222)
Treasury Futures	Net unrealized gains (losses) on derivatives	2,682	3,079
Treasury Futures	Net realized gains (losses) on derivatives	17,014	(12,268)
Swaptions	Net unrealized gains (losses) on derivatives	2,279	1,129
Swaptions	Net realized gains (losses) on derivatives	(1,316)	(5,333)
Total		\$ 193,084	\$ (24,921)

(1) Includes loss on termination of interest rate swaps of \$16 million for the nine months ended September 30, 2017. There were no swaps terminations during the nine months ended September 30, 2018.

The weighted average pay rate on the Company's interest rate swaps at September 30, 2018 was 2.46% and the weighted average receive rate was 2.35%. The weighted average pay rate on the Company's interest rate swaps at December 31, 2017 was 1.93% and the weighted average receive rate was 1.53%. The weighted average maturity on the Company's interest rate swaps at September 30, 2018 and December 31, 2017 was 6 years and 5 years, respectively.

Certain of the Company's derivative contracts are subject to International Swaps and Derivatives Association Master Agreements or other similar agreements which may contain provisions that grant counterparties certain rights with respect to the applicable agreement upon the occurrence of certain events such as (i) a decline in stockholders' equity in excess of specified thresholds or dollar amounts over set periods of time, (ii) the Company's failure to maintain its REIT status, (iii) the Company's failure to comply with limits on the amount of leverage, and (iv) the Company's stock being delisted from the New York Stock Exchange (NYSE). Upon the occurrence of any one of items (i) through (iv), or another default under the agreement, the counterparty to the applicable agreement has a right to terminate the agreement in accordance with its provisions. Certain of the Company's interest rate swaps are cleared through a registered commodities exchange. Each of the Company's ISDAs and clearing exchange agreements contains provisions under which the Company is required to fully collateralize its obligations under the interest rate swap agreements if at any point the fair value of the swap represents a liability greater than the minimum transfer amount contained within the agreements. The Company is also required to post initial collateral upon execution of certain of its swap transactions. If the Company breaches any of these provisions, it will be required to settle its obligations under the agreements at their termination values, which approximates fair value. The Company uses clearing exchange market prices to determine the fair value of its interest rate swaps. The aggregate fair value of all derivative instruments with credit-risk-related contingent features that are in a net asset position at September 30, 2018 is approximately \$183 million including accrued interest, which represents the maximum amount the Company would receive upon termination, which is fully collateralized.

10. Capital Stock

Preferred Stock

In September 2018, the Company issued 10,400,000 shares of 7.75% Series C Fixed-to-Floating Rate Cumulative Redeemable Preferred Stock, par value \$0.01 per share (the "Series C Preferred Stock"), at a public offering price of \$25.00 per share and for net proceeds to us of \$252 million. The Series C Preferred Stock is redeemable at \$25.00 per

share plus accrued and unpaid dividends (whether or not authorized or declared) exclusively at the Company's option commencing in September 30, 2025, subject to the Company's right, under limited circumstances, to redeem the Series C Preferred Stock prior to that date. The initial dividend rate for the Series C Preferred Stock, from and including September 20, 2018, to but not including September 30, 2025, will be equal to 7.75% per annum of the \$25.00 liquidation preference per share (equivalent to the fixed annual rate of \$1.9375 per share). On and after September 30, 2025, dividends on the Series C Preferred Stock will accumulate at a percentage of the \$25.00 liquidation preference equal to an annual floating rate of the three-month LIBOR plus a spread of 4.743% per annum. The Series C Preferred Stock is entitled to receive, when and as declared, a dividend at a rate of 7.75% per year on the \$25.00 liquidation preference before the common stock is paid any dividends and is senior to the common stock with respect to distributions upon liquidation, dissolution or winding up.

The first dividend on the Series C Preferred Stock is scheduled to be paid on or about December 30, 2018 (long first dividend period), in the amount of \$0.53819 per share.

The Company declared dividends to Series A preferred stockholders of \$3 million and \$9 million, or \$0.50 and \$1.50, respectively, per preferred share during the quarter and nine months ended September 30, 2018 and 2017, respectively.

The Company declared dividends to Series B preferred stockholders of \$7 million and \$20 million, or \$0.50 and \$1.50 per preferred share, respectively, during the quarter and nine months ended September 30, 2018. The Company declared dividends to Series B preferred stockholders of \$7 million and \$15 million, or \$0.50 and \$1.18, respectively, per preferred share during the quarter and nine months ended September 30, 2017, respectively.

Common Stock

In February 2018, our Board of Directors reauthorized \$100 million under our share repurchase program (the “Repurchase Program”). Such authorization does not have an expiration date and, at present, there is no intention to modify or otherwise rescind such authorization. Shares of our common stock may be purchased in the open market, including through block purchases, through privately negotiated transactions, or pursuant to any trading plan that may be adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended. The timing, manner, price and amount of any repurchases will be determined at our discretion and the program may be suspended, terminated or modified at any time for any reason. Among other factors, the Company intends to only consider repurchasing shares of our common stock when the purchase price is less than the last publicly reported book value per common share. In addition, the Company does not intend to repurchase any shares from directors, officers or other affiliates. The program does not obligate the Company to acquire any specific number of shares, and all repurchases will be made in accordance with Rule 10b-18, which sets certain restrictions on the method, timing, price and volume of stock repurchases.

Pursuant to our Repurchase Program, the Company repurchased approximately 883 thousand shares of its common stock at an average price of \$16.81 per share for a total of \$15 million during the first quarter of 2018. The company did not repurchase any common stock during the quarter ended September 30, 2018.

During the quarter and nine months ended September 30, 2018, and 2017, respectively, the Company declared dividends to common shareholders of \$94 million and \$282 million, or \$0.50 and \$1.50 per share.

Earnings per share for the quarters and nine months ended September 30, 2018 and 2017, respectively, are computed as follows:

	For the Quarter Ended September 30, 2018 2017 (dollars in thousands)	
Numerator:		
Net income available to common shareholders	\$ 147,361	\$ 129,832
Effect of dilutive securities:	—	—
Dilutive net income available to common shareholders	\$ 147,361	\$ 129,832
Denominator:		
Weighted average basic shares	187,006,777	187,779,794
Effect of dilutive securities	578,181	412,317
Weighted average dilutive shares	187,584,958	188,192,111
Net income per average share attributable to common stockholders - Basic	\$ 0.79	\$ 0.69
Net income per average share attributable to common stockholders - Diluted	\$ 0.79	\$ 0.69

	For the Nine Months Ended September 30, 2018 2017 (dollars in thousands)	
Numerator:		
Net income available to common shareholders	\$485,675	\$ 392,977
Effect of dilutive securities:	—	—
Dilutive net income available to common shareholders	\$485,675	\$ 392,977
Denominator:		
Weighted average basic shares	187,182,988	187,773,715
Effect of dilutive securities	522,899	403,042
Weighted average dilutive shares	187,705,887	188,176,757
Net income per average share attributable to common stockholders - Basic	\$2.59	\$ 2.09
Net income per average share attributable to common stockholders - Diluted	\$2.59	\$ 2.09

11. Accumulated Other Comprehensive Income

The following table presents the changes in the components of Accumulated Other Comprehensive Income (“AOCI”) for the nine months ended September 30, 2018 and 2017:

	September 30, 2018 (dollars in thousands)	
	Unrealized gains (losses) on Total available-for-sale Accumulated securities, OCI Balance net	
Balance as of December 31, 2017	\$796,902	\$ 796,902
OCI before reclassifications	(181,885)	(181,885)
Amounts reclassified from AOCI	12,919	12,919
Net current period OCI	(168,966)	(168,966)
Balance as of September 30, 2018	\$627,936	\$ 627,936
	September 30, 2017 (dollars in thousands)	
	Unrealized gains (losses) Total on Accumulated available-for-sale OCI Balance securities, net	
Balance as of December 31, 2016	\$718,106	\$ 718,106
OCI before reclassifications	59,114	59,114
Amounts reclassified from AOCI	35,898	35,898
Net current period OCI	95,012	95,012

Balance as of September 30, 2017 \$813,118\$ 813,118

The following table presents the details of the reclassifications from AOCI for the nine months ended September 30, 2018 and 2017:

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Details about Accumulated OCI Components	September 30, 2018 Amounts Reclassified from Accumulated OCI	September 30, 2017 Amounts Reclassified from Accumulated OCI	Affected Line on the Consolidated Statements Of Operations
Unrealized gains and losses on available-for-sale securities	\$ 4,603	\$ 7,778	Net realized gains (losses) on sales of investments
	(17,522	) (43,676	) Net other-than-temporary credit impairment losses
	\$ (12,919	) \$ (35,898	) Income before income taxes
	—	—	Income taxes
	\$ (12,919	) \$ (35,898	) Net of tax

12. Equity Compensation, Employment Agreements and other Benefit Plans

In accordance with the terms of the Company's 2007 Equity Incentive Plan (as amended and restated on December 10, 2015) (the "Incentive Plan"), directors, officers and employees of the Company are eligible to receive restricted stock grants. These awards generally have a restriction period lasting three years. During the vesting period, these shares may not be sold. There were approximately 6 million shares available for future grants under the Incentive Plan as of September 30, 2018.

During the first quarter of 2017, the Compensation Committee of the Board of Directors of the Company approved a Stock Award Deferral Program (the "Deferral Program"). Under the Deferral Program, non-employee directors and certain executive officers can elect to defer payment of certain stock awards made pursuant to the Equity Plan. Deferred awards are treated as deferred stock units and paid at the earlier of separation from service or a date elected by the participant. Payments are generally made in a lump sum or, if elected by the participant, in five annual installments. Deferred awards receive dividend equivalents during the deferral period in the form of additional deferred stock units. Amounts are paid at the end of the deferral period by delivery of shares from the Incentive Plan (plus cash for any fractional deferred stock units), less any applicable tax withholdings. Deferral elections do not alter any vesting requirements applicable to the underlying stock award.

During the first quarter of 2018 and 2017, the Company granted certain of its employees Restricted Stock Units ("RSU") awards. RSU awards are designed to reward certain employees of the Company for services provided over the previous year. Generally, the RSU awards vest equally over a three-year period beginning from the grant date and will fully vest after three years. The RSU awards are valued at the market price of the Company's common stock on the grant date and the employees must be employed by the Company on the vesting dates to receive the RSU awards. The Company granted 241 thousand and 112 thousand RSU awards during the first quarter of 2018 and 2017, with a grant date fair value of \$4 million and \$2 million, respectively, which will be recognized as compensation expense on a straight-line basis over the three year vesting period.

During the first quarter of 2018 and 2017, the Company granted certain employees 133 thousand and 144 thousand Performance Share Units ("PSU") awards, respectively. PSU awards are designed to align compensation with the Company's future performance. The PSU awards include a three year performance period ending on December 31, 2020 and December 31, 2019, respectively. The final number of shares that will vest will be between 0% to 150% of the total PSU awards granted based on the stock performance of the Company as compared to an index of comparable

financial institutions and will cliff vest at the end of the performance period. The PSU awards are measured at fair value on the grant date which will be recognized as compensation expense ratably over the three-year vesting period. Fair value is determined using a Monte Carlo valuation model developed to value the specific features of the PSU awards, including market based conditions. Inputs into the model include the Company's historical volatility, the peer average historical volatility, and the correlation coefficient of the volatility. In addition, inputs also included the share price at the beginning of the measurement period and an estimated total shareholder return for both the Company and the peer group of comparable financial institutions. Based on the model results, the 133 thousand PSU awards granted during 2018 had a grant date value of \$2 million that will cliff vest on December 31, 2020. The 144 thousand PSU awards granted during 2017 had a grant date value of \$3 million which will cliff vest on December 31, 2019.

The Company recognized stock based compensation expenses of \$2 million and \$1 million for the quarters ended September 30, 2018 and 2017, respectively. For the nine months ended September 30, 2018 and 2017, the stock based compensation expenses were \$5 million and \$3 million, respectively.

The Company also maintains a qualified 401(k) plan. The plan is a retirement savings plan that allows eligible employees to contribute a portion of their wages on a tax-deferred basis under Section 401(k) of the Code. Employees may contribute, through payroll deductions, up to \$18,500 if under the age of 50 years and an additional \$6,000 "catch-up" contribution for

employees 50 years or older. The Company matches 100% of the first 6% of the eligible compensation deferred by employee contributions. The employer funds the 401(k) matching contributions in the form of cash, and participants may direct the Company match to an investment of their choice. The benefit of the Company's contributions vests immediately. Generally, a participating employee is entitled to distributions from the plans upon termination of employment, retirement, death or disability. The 401(k) expense related to the Company's qualified plan for the quarters ended September 30, 2018 and 2017 was \$101 thousand and \$84 thousand, respectively. For the nine months ended September 30, 2018 and 2017, the 401(k) expense related to the Company's qualified plan was \$352 thousand and \$299 thousand, respectively.

13. Income Taxes

For the quarter ended September 30, 2018 and year ended December 31, 2017, the Company qualified to be taxed as a REIT under Code Sections 856 through 860. As a REIT, the Company is not subject to federal income tax to the extent that it makes qualifying distributions of taxable income to its stockholders. To maintain qualification as a REIT, the Company must distribute at least 90% of its annual REIT taxable income to its shareholders and meet certain other requirements such as assets it may hold, income it may generate and its shareholder composition. It is generally the Company's policy to distribute to its shareholders all of the Company's taxable income.

The state and local tax jurisdictions to which the Company is subject to tax-filing obligations, recognize the Company's status as a REIT, and therefore, the Company generally does not pay income tax in such jurisdictions. The Company may, however, be subject to certain minimum state and local tax filing fees and its TRSs are subject to federal, state and local taxes. There were no significant income tax expenses for the quarter ended September 30, 2018 and the year ended December 31, 2017. On December 22, 2017, H.R. 1, informally known as the Tax Cuts and Jobs Act (the "TCJA") was enacted. We continue to analyze and monitor the application of the TCJA to our business.

In general, cash dividends declared by the Company will be considered ordinary income to stockholders for income tax purposes. From time to time, a portion of the Company's dividends may be characterized as capital gains or return of capital distributions.

The Company's effective tax rate differs from its combined federal, state and city corporate statutory tax rate primarily due to the deduction of dividend distributions required to be paid under Code Section 857(a).

The Company's 2017, 2016 and 2015 federal, state and local tax returns remain open for examination.

14. Credit Risk and Interest Rate Risk

The Company's primary components of market risk are credit risk and interest rate risk. The Company is subject to interest rate risk in connection with its investments in Agency MBS and Non-Agency RMBS, residential mortgage loans, borrowings under repurchase agreements and securitized debt. When the Company assumes interest rate risk, it attempts to minimize interest rate risk through asset selection, hedging and matching the income earned on mortgage assets with the cost of related financing.

The Company attempts to minimize credit risk through due diligence, asset selection and portfolio monitoring. The Company has established a whole loan target market including prime and subprime borrowers, Alt-A documentation, geographic diversification, owner-occupied property, and moderate loan-to-value ratios. These factors are considered to be important indicators of credit risk.

By using derivative instruments and repurchase agreements, the Company is exposed to counterparty credit risk if counterparties to the contracts do not perform as expected. If a counterparty fails to perform on a derivative hedging

instrument, the Company's counterparty credit risk is equal to the amount reported as a derivative asset on its balance sheet to the extent that amount exceeds collateral obtained from the counterparty or, if in a net liability position, the extent to which collateral posted exceeds the liability to the counterparty. The amounts reported as a derivative asset/(liability) are derivative contracts in a gain/(loss) position, and to the extent subject to master netting arrangements, net of derivatives in a loss/(gain) position with the same counterparty and collateral received/(pledged). If the counterparty fails to perform on a repurchase agreement, the Company is exposed to a loss to the extent that the fair value of collateral pledged exceeds the liability to the counterparty. The Company attempts to minimize counterparty credit risk by evaluating and monitoring the counterparty's credit, executing master netting arrangements and obtaining collateral, and executing contracts and agreements with multiple counterparties to reduce exposure to a single counterparty.

Our repurchase agreements and derivative transactions are governed by underlying agreements that provide for a right of setoff under master netting arrangements, including in the event of default or in the event of bankruptcy of either party to the transactions. The Company presents its assets and liabilities subject to such arrangements on a net basis in our consolidated

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statements of financial condition. The following table presents information about our liabilities that are subject to such arrangements and can potentially be offset on our consolidated statements of financial condition as of September 30, 2018 and December 31, 2017.

September 30, 2018
(dollars in thousands)

	Gross Amounts of Recognized Assets (Liabilities)	Gross Amounts Offset in the Consolidated Statements of Financial Position	Net Amounts Offset in the Consolidated Statements of Financial Position	Gross Amounts Not Offset with Financial Assets (Liabilities) in the Consolidated Statements of Financial Position		
				Financial Instruments	Cash Collateral (Received) Pledged ⁽¹⁾	Net Amount
Repurchase Agreements	\$(11,143,102)	\$ —	\$(11,143,102)	\$12,613,645	\$ —	\$1,470,543
Interest Rate Swaps - Gross Assets	216,815	(69,120)	147,695	—	55,012	202,707
Interest Rate Swaps - Gross Liabilities	(8)	8	—	—	—	—
Treasury Futures - Gross Assets	6,234	(1,607)	4,627	—	—	4,627
Treasury Futures - Gross Liabilities	—	—	—	—	—	—
Swaptions - Gross Assets	2,747	—	2,747	—	—	2,747
Swaptions - Gross Liabilities	—	—	—	—	—	—
Total Liabilities	\$(10,917,314)	\$(70,719)	\$(10,988,033)	\$12,613,645	\$ 55,012	\$ 1,680,624

(1) Included in other assets

December 31, 2017
(dollars in thousands)

	Gross Amounts of Recognized Assets (Liabilities)	Gross Amounts Offset in the Consolidated Statements of Financial Position	Net Amounts Offset in the Consolidated Statements of Financial Position	Gross Amounts Not Offset with Financial Assets (Liabilities) in the Consolidated Statements of Financial Position		
				Financial Instruments	Cash Collateral (Received) Pledged ⁽¹⁾	Net Amount
Repurchase Agreements	\$(7,250,452)	\$ —	\$(7,250,452)	\$8,788,680	\$ 1,156	\$ 1,539,384
Interest Rate Swaps - Gross Assets	44,874	(1,617)	43,257	—	11,570	54,827
Interest Rate Swaps - Gross Liabilities	(1,617)	1,617	—	—	—	—
Treasury Futures - Gross Assets	3,552	—	3,552	—	376	3,928
Treasury Futures - Gross Liabilities	—	—	—	—	—	—
Swaptions - Gross Assets	2,105	—	2,105	—	—	2,105
Swaptions - Gross Liabilities	(320)	—	(320)	—	—	(320)
Total Liabilities	\$(7,201,858)	\$ —	\$(7,201,858)	\$8,788,680	\$ 13,102	\$ 1,599,924

(1) Included in other assets

15. Commitments and Contingencies

From time to time, the Company may become involved in various claims and legal actions arising in the ordinary course of business. In connection with certain re-securitization transactions engaged in by the Company, it has the obligation under certain circumstances to repurchase assets from the VIE upon breach of certain representations and warranties.

During the third quarter of 2018, Anacostia LLC, a TRS, acquired a 24.9% ownership interest in Kah Capital Management LLC (KAH Capital) for \$25 thousand. KAH Capital was formed to sponsor and manage one or more funds or accounts that focus on investments in U.S. housing related assets including reperforming and distressed loans, structured transactions and securities sourced from Government Sponsored Enterprises (GSEs) and private sellers, as well as other investments related to U.S. mortgage finance. KAH Capital will generate advisory and fee income and accordingly our investment is indirectly held through Anacostia LLC, a taxable REIT subsidiary.

In addition to the investment in KAH Capital, through two wholly-owned subsidiaries, we have made a \$150 million capital commitment to Hains Point (Hains Point), which is KAH Capital's initial fund for which Chimera is the sole investor. KAH Capital will manage the investments in Hains Point including asset selection, repurchase and other financing arrangements as well as hedging transactions. Capital calls for investments made in Hains Point are subject to our consent and approval. KAH Capital will earn \$6.5 million over approximately 3 years for its investment advisory services.

KAH Capital is expected to register as an investment advisor with the Securities and Exchange Commission (SEC) during the fourth quarter of 2018. We do not believe we are a “control person” of KAH Capital given the structure of our investment. If we were deemed a control person by a court, the SEC or other regulatory body, under certain circumstances we could have liability for misconduct by KAH Capital.

16. Subsequent Events

Subsequent to September 30, 2018, the Company exercised its call option to retire securitized debt, collateralized by loans held for investment with an unpaid principal amount of \$273 million at par.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion of the Company's ("we" or "our") financial condition and results of operations should be read in conjunction with the consolidated financial statements and notes to those statements included in Item 1 of this quarterly report on Form 10-Q.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

We make forward-looking statements in this report that are subject to risks and uncertainties. These forward-looking statements include information about possible or assumed future results of our business, financial condition, liquidity, results of operations, plans and objectives. When we use the words "believe," "expect," "anticipate," "estimate," "plan," "continue," "intend," "should," "may," "would," "will" or similar expressions, we intend to identify forward-looking statements. Statements regarding the following subjects, among others, are forward-looking by their nature:

- our business and investment strategy;
- availability of investment opportunities in real estate-related and other securities;
- our expected investments;
- changes in the value of our investments;
- changes in interest rates and mortgage prepayment rates;
- prepayments of the mortgage and other loans underlying our mortgage-backed securities, or RMBS, or other asset-backed securities, or ABS;
 - rates of default, delinquencies or decreased recovery rates on our investments;
- general volatility of the securities markets in which we invest;
- our ability to maintain existing financing arrangements and our ability to obtain future financing arrangements;
- our ability to effect our strategy to securitize residential mortgage loans;
- interest rate mismatches between our investments and our borrowings used to finance such purchases;
- effects of interest rate caps on our adjustable-rate investments;
- the degree to which our hedging strategies may or may not protect us from interest rate volatility;
- the impact of and changes to various government programs;
- impact of and changes in governmental regulations, tax law and rates, accounting guidance, and similar matters;
- market trends in our industry, interest rates, the debt securities markets or the general economy;
- estimates relating to our ability to make distributions to our stockholders in the future;
- our understanding of our competition;
- availability of qualified personnel;
- our ability to maintain our classification as a REIT for federal income tax purposes;
- our ability to maintain our exemption from registration under the Investment Company Act of 1940, as amended, or 1940 Act;
- our expectations regarding materiality or significance; and
- the effectiveness of our disclosure controls and procedures.

The forward-looking statements are based on our beliefs, assumptions and expectations of our future performance, taking into account all information currently available to us. You should not place undue reliance on these forward-looking statements. These beliefs, assumptions and expectations can change as a result of many possible events or factors, not all of which are known to us. Some of these factors are described under the caption "Risk Factors" in our Form 10-K for fiscal year ended December 31, 2017. If a change occurs, our business, financial condition, liquidity and results of operations may vary materially from those expressed in our forward-looking statements. Any forward-looking statement speaks only as of the date on which it is made. New risks and uncertainties arise from time to time, and it is impossible for us to predict those events or how they may affect us. Except as required by law, we are

not obligated to, and do not intend to, update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Executive Summary

We are a publicly traded real estate investment trust, or REIT, that is primarily engaged in the business of investing directly or indirectly through our subsidiaries, on a leveraged basis, in a diversified portfolio of mortgage assets, including residential mortgage loans, Non-Agency RMBS, Agency CMBS, Agency RMBS, and other real estate related securities. Our principal business objective is to deliver shareholder value through the generation of distributable income and through asset performance linked to residential mortgage credit fundamentals. We selectively invest in residential mortgage assets with a focus on credit analysis, projected prepayment rates, interest rate sensitivity and expected return.

We focus our investment activities primarily on acquiring residential mortgage loans and on acquiring Non-Agency and Agency residential and commercial mortgage-backed securities, or MBS. At September 30, 2018, based on the amortized cost balance of our interest earning assets, approximately 52% of our investment portfolio was residential mortgage loans, 41% of our investment portfolio was Agency MBS and 7% of our investment portfolio was Non-Agency RMBS, respectively. At December 31, 2017, based on the amortized cost balance of our interest earning assets, approximately 67% of our investment portfolio was residential mortgage loans, 22% of our investment portfolio was Agency MBS and 11% of our investment portfolio was Non-Agency RMBS, respectively.

Our investment strategy is intended to take advantage of opportunities in the current interest rate and credit environment. We expect to adjust our strategy to changing market conditions by shifting our asset allocations across these various asset classes as interest rate and credit cycles change over time. We believe that our strategy will enable us to pay dividends, preserve capital and safeguard book value throughout changing market cycles. We expect to take a long-term view of assets and liabilities, and our reported earnings and estimates of the fair value of our investments at the end of a financial reporting period will not significantly impact our objective of providing attractive risk-adjusted returns to our stockholders over the long-term.

We use leverage to increase returns and to finance the acquisition of our assets. Our income is generated primarily by the difference, or net spread, between the income we earn on our assets and the cost of our borrowings. We expect to finance our investments using a variety of financing sources including, when available, securitizations, warehouse facilities, repurchase agreements, structured asset financing and offerings of our securities. We may manage our debt and interest rate risk by utilizing interest rate hedges, such as interest rate swaps, caps, options and futures to reduce the effect of interest rate fluctuations related to our financing sources.

Under the U.S. credit risk retention rules that became effective on December 24, 2015, for transactions which we sponsor we have committed to consolidate the loans and retain a meaningful investment for a minimum of five years. Our credit investments are generally structurally locked out from pre-payments resulting in a high yielding longer duration credit portfolio.

Market Conditions and our Strategy

There are several key factors that impact our financial results, including the interest rate environment and changes in LIBOR rates, U.S. unemployment rates and residential home prices, as well as residential mortgage origination and refinance activity. The interest rate environment is sensitive to actual and anticipated US Federal Reserve actions, availability of adequate and efficient financing sources, rate volatility as well as other market factors. We have operated over the past several years and continue to operate in a volatile interest rate environment.

The 10-year Treasury note rose 20 basis points during the quarter and experienced a steady climb from the end of August to the end of the quarter reaching a high of 3.10% before closing the quarter at 3.06%. The short end of the curve also moved up with the Federal Reserve increasing the Federal Funds Target rate by 25 basis points in

September. The September rate hike was the eighth increase since the Federal Reserve started raising rates in December 2015. The yield curve continued to flatten since the end of June 2018.

The S&P 500 Index returned approximately 7% during the quarter and rose steadily over the summer months as investors showed a “risk on” appetite while equity volatility trended down. Unemployment levels continue to trend down and home prices continued to appreciate which provided support to the US housing economy. One of the weak spots in the global economy is emerging markets. Deteriorating market technicals, political uncertainty and tariff pressures seem to be weighing on these markets.

Our investments in Agency, Non-Agency and loans experienced mark to market losses this quarter, but were largely offset by gains on our interest rate hedges and securitized debt as interest rates continued to rise during the second quarter. We added approximately \$2.4 billion of Agency securities during the quarter, which added to interest income. Financing cost for our asset portfolio also increased as borrowing rates were broadly higher compared to the second quarter and our repurchase balances were higher related to the new Agency MBS securities purchased during the quarter.

Our book value per common share was \$17.02 as of September 30, 2018 up slightly from \$17.01 as of June 30, 2018 driven by continued strength in the residential credit markets, and particularly residential loans. Given the economic environment, we continue to seek high yielding investment opportunities that will deliver a durable dividend to our shareholders while managing risk and safeguarding book value.

Business Operations

Net Income Summary

The table below presents our net income on a GAAP basis for the quarters and nine months ended September 30, 2018 and 2017.

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Net Income

(dollars in thousands, except share and per share data)

	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Net interest income:				
Interest income ⁽¹⁾	\$321,715	\$ 296,813	\$925,282	\$ 836,801
Interest expense ⁽²⁾	174,671	140,358	485,189	388,544
Net interest income	147,044	156,455	440,093	448,257
Other-than-temporary impairments:				
Total other-than-temporary impairment losses	(772	)(784	)(1,871	)(4,245
Portion of loss recognized in other comprehensive income	(6,461	)(10,684	)(15,651	)(39,431
Net other-than-temporary credit impairment losses	(7,233	)(11,468	)(17,522	)(43,676
Other investment gains (losses):				
Net unrealized gains (losses) on derivatives	71,197	9,204	178,511	19,902
Realized gains (losses) on terminations of interest rate swaps	—	—	—	(16,143
Net realized gains (losses) on derivatives	2,881	(7,841	) 14,573	(28,680
Net gains (losses) on derivatives	74,078	1,363	193,084	(24,921
Net unrealized gains (losses) on financial instruments at fair value	(34,306	)19,042	(38,204	)159,047
Net realized gains (losses) on sales of investments	(6,123	)1	(3,956	)9,709
Gains (losses) on extinguishment of debt	9,263	(1	) 19,320	(48,016
Total other gains (losses)	42,912	20,405	170,244	95,819
Other expenses:				
Compensation and benefits	8,642	7,533	25,741	22,759
General and administrative expenses	5,615	4,537	16,964	13,162
Servicing fees	9,766	10,715	31,044	31,193
Deal expenses	1,372	3,357	4,555	16,054
Total other expenses	25,395	26,142	78,304	83,168
Income (loss) before income taxes	157,328	139,250	514,511	417,232
Income taxes	7	18	76	172
Net income (loss)	\$157,321	\$ 139,232	\$514,435	\$ 417,060
Dividend on preferred stock	9,960	9,400	28,760	24,083
Net income (loss) available to common shareholders	\$147,361	\$ 129,832	\$485,675	\$ 392,977
Net income (loss) per share available to common shareholders:				
Basic	\$0.79	\$ 0.69	\$2.59	\$ 2.09
Diluted	\$0.79	\$ 0.69	\$2.59	\$ 2.09
Weighted average number of common shares outstanding:				
Basic	187,006,777	187,779,794	187,182,931	187,773,715
Diluted	187,584,958	188,192,111	187,705,831	188,176,757
Dividends declared per share of common stock	\$0.50	\$ 0.50	\$1.50	\$ 1.50

(1) Includes interest income of consolidated VIEs of \$223,948 and \$241,195 for the quarters ended September 30, 2018 and 2017, respectively and interest income of consolidated VIEs of \$688,720 and \$668,621 for the nine months ended September 30, 2018 and 2017. See Note 8 to consolidated financial statements for further discussion.

(2) Includes interest expense of consolidated VIEs of \$99,622 and \$101,856 for the quarters ended September 30, 2018 and 2017, respectively and interest expense of consolidated VIEs of \$298,744 and \$290,264 for the nine months ended September 30, 2018 and 2017. See Note 8 to consolidated financial statements for further discussion.

Results of Operations for the Quarters and Nine Months Ended September 30, 2018 and 2017.

Our primary source of income is interest income earned on our assets, net of interest expense paid on our financing liabilities.

Our net income available to common shareholders increased by \$17 million to \$147 million, or \$0.79 per average basic common share, for the quarter ended September 30, 2018 as compared to \$130 million, or \$0.69 per average basic common share, for the quarter ended September 30, 2017. The increase in net income available to common shareholders for the quarter ended September 30, 2018 is primarily due to an increase in Net gains on derivatives of \$73 million, which was offset in part by an increase in Net unrealized losses on financial instruments at fair value of \$53 million, compared to the same period of 2017.

Our net income available to common shareholders increased by \$93 million to \$486 million, or \$2.59 per average basic common share, for the nine months ended September 30, 2018 as compared to \$393 million, or \$2.09 per average basic common share, for the nine months ended September 30, 2017. The increase in net income available to common shareholders for the nine months ended September 30, 2018 is primarily due to an increase in Net gains on derivatives of \$218 million and Gains on extinguishment of debt of \$67 million, which were offset in part by an increase in Net unrealized losses on financial instruments at fair value of \$197 million, compared to the same period of 2017.

Interest Income

The changes in our interest income for the quarter and nine months ended September 30, 2018, as compared to the same period of 2017, are primarily driven by the repositioning of our balance sheet by adding Agency MBS and residential mortgage loans investments. These changes have impacted interest income for the quarter and nine months ended as follows.

Interest income increased by \$25 million, or 8%, to \$322 million for the quarter ended September 30, 2018, as compared to \$297 million for the same period of 2017. The increase was primarily due to an increase in interest income earned on Agency MBS of \$43 million, which was driven by higher Agency MBS balance, as compared to the same period of 2017. This increase was offset in part by a decrease in interest income on Non-Agency RMBS transferred to consolidated VIEs of \$14 million and residential mortgage loans of \$4 million, compared to the same period of 2017.

Interest income increased by \$88 million, or 11%, to \$925 million for the nine months ended September 30, 2018, as compared to \$837 million for the same period of 2017. The increase was primarily due to an increase in interest income earned on our Agency MBS of \$67 million and residential mortgage loans of \$64 million, which was driven by higher Agency MBS and residential mortgage loan balances, as compared to the same period of 2017. These increases were offset in part by decreases in interest income on our Non-Agency RMBS and Non-Agency RMBS transferred to consolidated VIEs of \$41 million, compared to the same period of 2017.

Interest Expense

Interest expense increased by \$35 million, or 25%, to \$175 million for the quarter ended September 30, 2018, as compared to \$140 million for the same period of 2017. The increase was primarily due to increased interest expense on repurchase agreements collateralized by Agency MBS of \$24 million and repurchase agreements collateralized by RMBS from loan securitization of \$7 million, which were primarily driven by higher repurchase agreements on these respective categories, compared to the same period of 2017. Interest expense is also higher as a result of higher interest rates in 2018 compared to 2017. Interest expense for GAAP reporting does not include the periodic costs of

our derivatives, which are reported separately in our GAAP financial statements.

Interest expense increased by \$96 million, or 25%, to \$485 million for the nine months ended September 30, 2018, as compared to \$389 million for the same period of 2017. The increase was primarily due to increased interest expenses on repurchase agreements collateralized by Agency MBS of \$37 million, repurchase agreements collateralized by RMBS from loan securitization of \$36 million and securitized debt, collateralized by seasoned subprime residential mortgage loans of \$16 million, which were driven primarily by higher repurchase agreements and securitized debt balances on these respective categories, compared to the same period of 2017. Interest expense is also higher as a result of higher interest rates in 2018 compared to 2017. Interest expense for GAAP reporting does not include the periodic costs of our derivatives, which are reported separately in our GAAP financial statements.

Economic Net Interest Income

Our “Economic net interest income” is a non-GAAP financial measure, that equals interest income, less interest expense and realized losses on our interest rate swaps. Realized losses on our interest rate swaps are the periodic net settlement payments made or received. For the purpose of computing economic net interest income and ratios relating to cost of funds measures

throughout this section, interest expense includes net payments on our interest rate swaps, which is presented as a part of Net realized gains (losses) on derivatives in our Consolidated Statements of Operations. Interest rate swaps are used to manage the increase in interest paid on repurchase agreements in a rising rate environment. Presenting the net contractual interest payments on interest rate swaps with the interest paid on interest-bearing liabilities reflects our total contractual interest payments. We believe this presentation is useful to investors because it depicts the economic value of our investment strategy by showing actual interest expense and net interest income. However, Economic net interest income should not be viewed in isolation and is not a substitute for net interest income computed in accordance with GAAP. Where indicated, interest expense, including interest payments on interest rate swaps, is referred to as economic interest expense. Where indicated, net interest income reflecting interest payments on interest rate swaps, is referred to as economic net interest income.

The following table reconciles the GAAP and non-GAAP measurements reflected in the Management's Discussion and Analysis of Financial Condition and Results of Operations.

	GAAP Interest Income	GAAP Interest Expense	Net Realized (Gains) Losses on Interest Rate Swaps	Economic Interest Expense	GAAP Net Interest Income	Net Realized Gains (Losses) on Interest Rate Swaps	Other ⁽¹⁾	Economic Net Interest Income
For the Quarter Ended September 30, 2018	\$321,715	\$174,671	\$(242)	\$174,429	\$147,044	\$242	\$321	\$147,607
For the Quarter Ended June 30, 2018	\$306,436	\$161,266	\$(1,246)	\$160,020	\$145,170	\$1,246	\$436	\$146,852
For the Quarter Ended March 31, 2018	\$297,132	\$149,251	\$2,612	\$151,863	\$147,881	\$(2,612)	\$143	\$145,412
For the Quarter Ended December 31, 2017	\$301,957	\$144,204	\$4,369	\$148,573	\$157,753	\$(4,369)	\$(61)	\$153,323
For the Quarter Ended September 30, 2017	\$296,813	\$140,358	\$3,489	\$143,847	\$156,455	\$(3,489)	\$(167)	\$152,799

(1) Primarily interest expense/(income) on cash and cash equivalents.

Net Interest Rate Spread

The following table shows our average earning assets held, interest earned on assets, yield on average interest earning assets, average debt balance, economic interest expense, economic average cost of funds, economic net interest income, and net interest rate spread for the periods presented.

	For the Quarter Ended September 30, 2018 (dollars in thousands)			September 30, 2017 (dollars in thousands)				
	Average Balance	Interest	Average Yield/Cost	Average Balance	Interest	Average Yield/Cost		
Assets:								
Interest-earning assets ⁽¹⁾ :								
Agency MBS	\$7,776,334	\$66,863	3.4 %	\$3,733,640	\$24,236	2.6 %		
Non-Agency RMBS	1,186,945	29,213	9.8 %	1,258,634	28,590	9.1 %		
Non-Agency RMBS transferred to consolidated VIEs	632,155	42,416	26.8 %	1,000,912	56,388	22.5 %		
Residential mortgage loans held for investment	12,613,816	183,544	5.8 %	12,959,595	187,432	5.8 %		
Total	\$22,209,250	\$322,036	5.8 %	\$18,952,781	\$296,646	6.3 %		
Liabilities and stockholders' equity:								
Interest-bearing liabilities:								
Repurchase agreements collateralized by:								
Agency MBS ⁽²⁾	\$6,720,205	\$38,492	2.3 %	\$3,114,689	\$14,211	1.8 %		
Non-Agency RMBS ⁽²⁾	428,363	4,186	3.9 %	706,941	5,257	3.0 %		
Re-REMIC repurchase agreements	621,042	6,681	4.3 %	443,029	3,679	3.3 %		
RMBS from loan securitizations	2,465,678	25,449	4.1 %	2,285,232	18,843	3.3 %		
Securitized debt, collateralized by Non-Agency RMBS	173,825	2,471	5.7 %	248,989	4,416	7.1 %		
Securitized debt, collateralized by loans	8,938,962	97,150	4.3 %	9,399,125	97,441	4.1 %		
Total	\$19,348,075	\$174,429	3.6 %	\$16,198,005	\$143,847	3.6 %		
Economic net interest income/net interest rate spread		\$147,607	2.2 %		\$152,799	2.7 %		
Net interest-earning assets/net interest margin	\$2,861,175		2.7 %	\$2,754,776		3.2 %		
Ratio of interest-earning assets to interest bearing liabilities	1.15			1.17				

(1) Interest-earning assets at amortized cost

(2) Interest includes net cash paid/received on swaps

	For the Nine Months Ended						
	September 30, 2018 (dollars in thousands)			September 30, 2017 (dollars in thousands)			
	Average Balance	Interest	Average Yield/Cost	Average Balance	Interest	Average Yield/Cost	
Assets:							
Interest-earning assets (1):							
Agency MBS	\$5,895,320	\$143,532	3.2 %	\$3,732,289	\$76,157	2.7 %	
Non-Agency RMBS	1,149,419	78,350	9.1 %	1,315,497	88,362	9.0 %	
Non-Agency RMBS transferred to consolidated VIEs	780,808	143,732	24.5 %	1,071,150	175,008	21.8 %	
Residential mortgage loans held for investment	12,953,921	560,569	5.8 %	11,486,239	496,238	5.8 %	
Total	\$20,779,468	\$926,183	5.9 %	\$17,605,175	\$835,765	6.3 %	
Liabilities and stockholders' equity:							
Interest-bearing liabilities:							
Repurchase agreements collateralized by:							
Agency MBS (2)	\$4,866,565	\$75,291	2.1 %	\$3,129,569	\$37,875	1.6 %	
Non-Agency RMBS (2)	407,242	10,602	3.5 %	728,160	16,018	2.9 %	
Re-REMIC repurchase agreements	736,456	22,188	4.0 %	491,303	11,921	3.2 %	
RMBS from loan securitizations	2,632,164	79,488	4.0 %	1,763,856	43,546	3.3 %	
Securitized debt, collateralized by Non-Agency RMBS	187,053	7,933	5.7 %	283,873	14,991	7.0 %	
Securitized debt, collateralized by loans	9,031,921	290,810	4.3 %	8,741,986	275,272	4.2 %	
Total	\$17,861,401	\$486,312	3.6 %	\$15,138,747	\$399,623	3.5 %	
Economic net interest income/net interest rate spread		\$439,871	2.3 %		\$436,142	2.8 %	
Net interest-earning assets/net interest margin	\$2,918,067		2.8 %	\$2,466,428		3.3 %	
Ratio of interest-earning assets to interest bearing liabilities	1.16			1.16			

(1) Interest-earning assets at amortized cost

(2) Interest includes net cash paid/received on swaps

Economic Net Interest Income and the Average Earning Assets

Our economic net interest income decreased by \$5 million to \$148 million for the quarter ended September 30, 2018 from \$153 million for the same period of 2017. Our economic net interest income increased by \$4 million to \$440 million for the nine months ended September 30, 2018 from \$436 million for the same period of 2017. Our net interest rate spread, which equals the yield on our average interest-earning assets less the economic average cost of funds decreased by 50 basis points for the quarter and nine months ended September 30, 2018, as compared to the same period of 2017. The net interest margin, which equals the economic net interest income as a percentage of the net average balance of our interest-earning assets less our interest-bearing liabilities decreased by 50 basis points for the quarter and nine months ended September 30, 2018, as compared to the same period of 2017. Average net interest-earning assets increased by \$106 million and \$452 million for the quarter and nine months ended

September 30, 2018 compared to the same periods of 2017. This increase in average net interest-earning assets was primarily driven by an increase in our investments in Agency MBS and residential mortgage loans, which was partially offset by an increase in our repurchase agreements and securitized debt, collateralized by loans portfolio.

Economic Interest Expense and the Cost of Funds

The borrowing rate at which we are able to finance our assets using repurchase agreements and securitized debt is typically correlated to LIBOR and the term of the financing. The table below shows our average borrowed funds, economic interest expense, average cost of funds (inclusive of realized losses on interest rate swaps), average one-month LIBOR, average three-month LIBOR and average one-month LIBOR relative to average three-month LIBOR.

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	Average Debt Balance	Economic Interest Expense ⁽¹⁾	Average Cost of Funds	Average One-Month LIBOR	Average Three-Month LIBOR	Average One-Month LIBOR Relative to Average Three-Month LIBOR
(Ratios have been annualized, dollars in thousands)						
For The Quarter Ended September 30, 2018	\$ 19,348,075	\$ 174,429	3.61 %	2.11 %	2.34 %	(0.23) %
For The Quarter Ended June 30, 2018	\$ 17,883,143	\$ 160,020	3.58 %	1.97 %	2.34 %	(0.37) %
For The Quarter Ended March 31, 2018	\$ 16,642,471	\$ 151,863	3.65 %	1.65 %	1.92 %	(0.27) %
For The Quarter Ended December 31, 2017	\$ 16,698,959	\$ 148,573	3.56 %	1.32 %	1.45 %	(0.13) %
For The Quarter Ended September 30, 2017	\$ 16,198,005	\$ 143,847	3.55 %	1.23 %	1.31 %	(0.08) %

(1) Includes effect of realized losses on interest rate swaps.

Average interest-bearing liabilities increased by \$3.2 billion for the quarter ended September 30, 2018, as compared to the same period of 2017. Economic interest expense increased by \$31 million for the quarter ended September 30, 2018, as compared to the same period of 2017. The increase in average interest-bearing liabilities and economic interest expense is a result of the increase in the amount of our repurchase agreements and securitized debt collateralized by seasoned subprime mortgage loans as well as the increase in LIBOR.

Average one-month and three-month LIBOR were up 88 basis points and 103 basis points, respectively, during the quarter ended September 30, 2018, as compared to the same period of 2017, contributing to the increase in economic interest expense. While we do acquire interest rate hedges to mitigate changes in interest rate risks, the hedges may not fully offset interest expense movements.

Net Other-than-temporary Credit Impairment Losses

OTTI losses are generated when fair values decline below our amortized cost basis, an unrealized loss, and the expected future cash flows decline from prior periods, an adverse change. When an unrealized loss and an adverse change in cash flows occur, we will recognize an OTTI loss in earnings. In addition, if we intend to sell a security, or believe we will be required to sell a security in an unrealized loss position, we will recognize an OTTI loss in earnings equal to the unrealized loss.

OTTI losses were \$7 million and \$11 million for the quarter ended September 30, 2018 and 2017, respectively, and \$18 million and \$44 million for the nine months ended September 30, 2018 and 2017, respectively. Of these amounts, \$7 million and \$11 million of the OTTI for the quarters ended September 30, 2018 and 2017, and \$16 million and \$37 million for the nine months ended September 30, 2018 and 2017, respectively, were related to securities included in our consolidated VIEs. As of September 30, 2018, we had five Non-agency RMBS security subject to OTTI in an unrealized loss position totaling \$539 thousand for which we did not recognize impairment. We continue to monitor our investment portfolio and will record an OTTI for all investments in an unrealized loss position for which we do not believe we will recover our amortized cost prior to maturity or sale.

Net Gains (losses) on derivatives

Our interest rate swaps are primarily used to economically hedge the effects of changes in interest rates on our portfolio, specifically our floating rate debt. Therefore, we included the periodic interest costs of the interest rate swaps for the quarters and nine months ended September 30, 2018 and 2017 on these economic hedges in our presentation of economic net interest income and our net interest spreads. As we do not account for these as hedges

for GAAP presentation, we present these gains and losses separately in the Consolidated Statements of Operations. The decrease in the net periodic interest cost of the interest rate swaps are primarily due to the increase in interest rates and changes in our swap portfolio balance during the year.

The table below shows a summary of our net gains (losses) on derivative instruments, for the quarters and nine months ended September 30, 2018 and 2017, respectively.

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	For the Quarters Ended		For the Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
	(dollars in thousands)			
Periodic interest cost of interest rate swaps, net	\$242	\$ (3,491)	\$ (1,125)	\$ (11,080)
Realized gains (losses) on derivative instruments, net:				
Treasury Futures	2,799	(3,267)	17,014	(12,267)
Swaptions	(160)	(1,083)	(1,316)	(5,333)
Swaps - Terminations	—	—	—	(16,143)
Total realized gains (losses) on derivative instruments, net	2,639	(4,350)	15,698	(33,743)
Unrealized gains (losses) on derivative instruments, net:				
Interest Rate Swaps	67,422	5,001	173,550	15,694
Treasury Futures	3,285	3,467	2,682	3,079
Swaptions	490	736	2,279	1,129
Total unrealized gains (losses) on derivative instruments, net:	71,197	9,204	178,511	19,902
Total gains (losses) on derivative instruments, net	\$74,078	\$ 1,363	\$ 193,084	\$ (24,921)

The net gains and losses on our derivatives include both unrealized and realized gains and losses. Realized gains and losses include the net cash paid and received on our interest rate swaps during the period as well as sales and settlements of our Treasury Futures and swaptions. The realized loss on our derivative instruments is primarily a result of the pay fixed leg of our swaps carried at a higher interest rate than the receive floating leg of these same swaps, resulting in a net payment on the periodic settlement of the swaps during the year.

Unrealized gains and losses include the change in market value, period over period, on our derivatives portfolio. Changes in market value are generally a result of changes in interest rates. We may or may not ultimately realize these unrealized derivative gains and losses depending on trade activity, changes in interest rates and the values of the underlying securities. During the quarter and nine months ended September 30, 2018, we recognized total net gains on derivatives of \$74 million and \$193 million, compared to net gains on derivatives of \$1 million and total net losses on derivatives of \$25 million for the quarter and nine months ended September 30, 2017. This was primarily driven by higher unrealized gains on interest rate swaps, realized gains on Treasury futures and no swaps termination losses in 2018 as compared to 2017.

There were no swap terminations during the quarter and nine months ended September 30, 2018. There were no swap terminations during the quarter ended September 30, 2017. We paid \$16 million to terminate interest rate swaps with a notional value of \$250 million during the nine months ended September 30, 2017. Our Treasury futures positions remained unchanged at \$620 million of notional value during the quarters and nine months ended September 30, 2018 and 2017. We reduced our swaptions by \$429 million of notional value to \$53 million of notional value at September 30, 2018, as compared to the \$482 million notional value at September 30, 2017.

Changes in our derivative positions were a result of changes in our portfolio composition and changes in interest rates.

We had net realized gains on our short futures positions of \$3 million and \$17 million for the quarters and nine months ended September 30, 2018. We had net realized losses of \$3 million and \$12 million during the quarter and nine months ended September 30, 2017. The realized gains and losses were driven primarily by changes in interest rates during these periods, which affects the Treasury futures prices, resulting in realized gains or losses on our short futures positions. Treasury futures are not included in our economic interest expense and economic net interest income.

Net Unrealized Gains (Losses) on Financial Instruments at Fair Value

We have elected the fair value option with changes in fair value reflected in earnings for our IO RMBS securities, certain Non-Agency RMBS securities which receive residual cash flows, Loans held for investment, and the related financing for the loans consolidated as a VIE in our statement of financial condition. In addition, we have elected to account for Agency MBS investments acquired on or after July 1, 2017 under the fair value option. All Agency MBS investments owned prior to July 1, 2017 will continue to be carried at fair value with changes in fair value reported in other comprehensive income (OCI) as available-for-sale investments.

IO RMBS securities represent the right to receive the interest on a pool of mortgage backed securities, including both Agency and Non-Agency mortgage pools. The fair value of IO RMBS securities are heavily impacted by changes in expected prepayment rates. When IO securities prepay faster than expectations, the holder of the IO security will receive less interest on the investment due to the reduced principal.

We invest in overcollateralization classes of several seasoned pools of mortgage loans. These holdings generally do not have a traditional original and current face or notional face value amount and pay cash based on guidance in the trust documents when excess cash is available. Many of these holdings do not pay any interest and may never pay interest. We have elected to carry these overcollateralization classes at fair value with changes in fair value reflected in earnings.

The Net unrealized losses on financial instruments at fair value for the quarter and nine months ended September 30, 2018 were \$34 million and \$38 million. The quarter to date 2018 losses on financial instruments at fair value were primarily driven by unrealized losses on Agency MBS of \$52 million, offset in part by unrealized gains on securitized debt collateralized by loans of \$26 million. The year to date 2018 losses on financial instruments at fair value were driven primarily by unrealized losses on Agency MBS of \$94 million, offset in part by unrealized gains on securitized debt collateralized by loans of \$41 million and Loans held for investment of \$17 million.

For the quarter and nine months ended September 30, 2017, the Net unrealized gains on financial instruments at fair value were \$19 million, and \$159 million, respectively.

Gains and Losses on Sales of Assets and Losses on Extinguishment of Securitized Debt

We had net realized losses on sales of investments of \$6 million and \$4 million during the quarter and nine months ended September 30, 2018. For the quarter and nine months ended September 30, 2017, our net realized gains on sales of investments were \$1 thousand and \$10 million, respectively. We do not forecast sales of investments as we generally expect to invest for long term gains. However, from time to time, we may sell assets to create liquidity necessary to pursue new opportunities, achieve targeted leverage ratios as well as for gains when prices indicate a sale is most beneficial to us, or is the most prudent course of action to maintain a targeted risk adjusted yield for our investors.

When we acquire our outstanding securitized debt, we extinguish the outstanding debt and recognize a gain or loss based on the difference between the carrying value of the debt and the cost to acquire the debt which is reflected in the Consolidated Statements of Operations as a gain or loss on extinguishment of debt.

There was no securitized debt collateralized by Non-Agency RMBS acquisition during the quarters and nine months ended September 30, 2018. During the quarter ended September 30, 2017, we acquired securitized debt collateralized by Non-Agency RMBS with an amortized cost balance of \$166 thousand for \$167 thousand. This transaction resulted in a net loss on the extinguishment of debt of \$1 thousand, which is reflected in earnings for the quarter and nine months ended September 30, 2017.

During the quarter ended September 30, 2018, we acquired securitized debt collateralized by loans with an amortized cost balance of \$277 million for \$268 million. This transaction resulted in a net gain on the extinguishment of debt of \$9 million, which is reflected in earnings for the quarter ended September 30, 2018. During the nine months ended September 30, 2018, we acquired securitized debt collateralized by loans with an amortized cost balance of \$580 million for \$561 million. These transactions resulted in a net gain on the extinguishment of debt of \$19 million, which is reflected in earnings for the nine months ended September 30, 2018.

We did not acquire any securitized debt collateralized by loans during the quarter ended September 30, 2017. During the nine months ended September 30, 2017, we acquired securitized debt collateralized by loans with an amortized cost balance of \$197 million for \$245 million. This transaction resulted in a net loss on the extinguishment of debt of \$48 million. As our securitized debt is carried at fair value with changes in fair value reflected in earnings some of this loss was recognized during prior periods.

Compensation, General and Administrative Expenses and Deal Expenses

The table below shows our total compensation and benefit expense, general and administrative, or G&A expenses, and deal expenses as compared to average total assets and average equity for the periods presented.

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	Total Compensation, G&A and Deal Expenses (Ratios have been annualized, dollars in thousands)	Total Compensation, G&A and Deal Expenses/Average Assets	Total Compensation, G&A and Deal Expenses/Average Equity	
For The Quarter Ended September 30, 2018	\$15,6290.26	%	1.65	%
For The Quarter Ended June 30, 2018	\$16,6440.30	%	1.82	%
For The Quarter Ended March 31, 2018	\$14,9880.28	%	1.64	%
For The Quarter Ended December 31, 2017	\$17,1580.32	%	1.89	%
For The Quarter Ended September 30, 2017	\$15,4270.29	%	1.71	%

Compensation and benefit costs were \$9 million and \$8 million for the quarter ended September 30, 2018 and 2017, and \$26 million and \$23 million for the nine months ended September 30, 2018 and 2017, respectively. The increases in Compensation and benefit costs were primarily driven by higher stock based compensation and hiring new employees.

G&A expenses were \$6 million and \$5 million for the quarter ended September 30, 2018 and 2017, and \$17 million and \$13 million for the nine months ended September 30, 2018 and 2017, respectively. The G&A expenses are primarily comprised of auditing, information technology, legal and consulting expenses. The increases in G&A expenses were primarily driven by higher legal expenses and investment manager fees as compared to the same period of 2017.

The Company incurred deal expenses of \$1 million and \$3 million for the quarter ended September 30, 2018 and 2017, respectively, and \$5 million and \$16 million for the nine months ended September 30, 2018 and 2017, respectively. The decrease in deal expenses during the nine months ended September 30, 2018 was driven by lower securitization activity compared to the same period of 2017.

Servicing Fees

Servicing fees expenses were \$10 million and \$11 million during the quarter ended September 30, 2018 and 2017, respectively. For the nine months ended September 30, 2018 and 2017, the servicing fees were \$31 million. These servicing fees are related to the consolidation of the whole loan securitization vehicles and are paid from interest income earned by the VIEs. The servicing fees range from 20 to 50 basis points of unpaid principal balances of our consolidated VIEs.

Core earnings

Core earnings is a non-GAAP measure and is defined as GAAP net income excluding unrealized gains on the aggregate portfolio, impairment losses, realized gains on sales of investments, realized gains or losses on futures, realized gains or losses on swap terminations, gain on deconsolidation, extinguishment of debt and certain other non-recurring gains or losses. As defined, core earnings include interest income and expense as well as realized losses on interest rate swaps used to hedge interest rate risk and other expenses. Management believes that the presentation of core earnings provides investors with a useful measure to facilitate comparisons of financial performance between our REIT peers, but has important limitations. We believe core earnings as described above helps evaluate our financial performance without the impact of certain transactions but is of limited usefulness as an analytical tool. Therefore, core earnings should not be viewed in isolation and is not a substitute for net income or net income per

basic share computed in accordance with GAAP.

The following table provides GAAP measures of net income and net income per basic share available to common stockholders for the periods presented and details with respect to reconciling the line items to core earnings and related per average basic common share amounts:

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	For the Quarters Ended				
	September 30, 2018	June 30, 2018	March 31, 2018	December 31, 2017	September 30, 2017
	(dollars in thousands, except per share data)				
GAAP Net income available to common stockholders	\$ 147,361	\$ 108,708	\$ 229,607	\$ 98,208	\$ 129,832
Adjustments:					
Net other-than-temporary credit impairment losses	7,233	9,131	1,158	18,179	11,468
Net unrealized (gains) losses on derivatives	(71,197)	(25,895)	(81,419)	(28,074)	(9,204)
Net unrealized (gains) losses on financial instruments at fair value	34,306	18,364	(14,466)	47,637	(19,042)
Net realized (gains) losses on sales of investments	6,123	(2,167)	—	586	(1)
(Gains) losses on extinguishment of debt	(9,263)	(387)	(9,670)	(12,742)	1
Realized (gains) losses on terminations of interest rate swaps	—	—	—	—	—
Net realized (gains) losses on Futures ⁽¹⁾	(2,799)	2,210	(16,424)	(8,204)	3,267
Core Earnings	\$ 111,764	\$ 109,964	\$ 108,786	\$ 115,590	\$ 116,321
GAAP net income per basic common share	\$0.79	\$0.58	\$1.22	\$0.52	\$0.69
Core earnings per basic common share ⁽²⁾	\$0.60	\$0.59	\$0.58	\$0.62	\$0.62

(1) Included in net realized gains (losses) on derivatives in the Consolidated Statements of Operations.

(2) We note that core and taxable earnings will typically differ, and may materially differ, due to differences on realized gains and losses on investments and related hedges, credit loss recognition, timing differences in premium amortization, accretion of discounts, equity compensation and other items.

Our core earnings for the quarter ended September 30, 2018 were \$112 million, or \$0.60 per average basic common share, compared to \$116 million, or \$0.62 per average basic common share, for the quarter ended September 30, 2017.

Net Income (Loss) and Return on Total Stockholders' Equity

The table below shows our Net Income, Economic Net Interest Income and Core Earnings, each as a percentage of average stockholders' equity. Return on average equity is defined as our GAAP net income (loss) as a percentage of average equity. Average equity is defined as the average of our beginning and ending stockholders' equity balance for the period reported. Economic Net Interest Income and Core Earnings are non-GAAP measures as defined in previous sections.

	Return on Average Equity	Economic Net Interest Income/Average Equity *	Core Earnings/Average Equity		
	(Ratios have been annualized)				
For the Quarter Ended September 30, 2018	16.64%	15.61%	11.82%		
For the Quarter Ended June 30, 2018	12.91%	16.05%	12.02%		
For the Quarter Ended March 31, 2018	26.17%	15.92%	11.91%		
For the Quarter Ended December 31, 2017	11.82%	16.85%	12.70%		
For the Quarter Ended September 30, 2017	15.42%	16.92%	12.88%		

* Includes effect of realized losses on interest rate swaps.

Return on average equity increased by 122 basis points for the quarter ended September 30, 2018, as compared to the same period of 2017. Economic net interest income as a percentage of average equity decreased by 131 basis points, driven primarily by higher average equity balance and higher interest expense related to the increase in LIBOR rates. Core earnings as a percentage of average equity decreased by 106 basis points for the quarter ended September 30, 2018 compared to the quarter ended September 30, 2017, which was primarily driven by a decrease in core earnings of \$4 million and a higher average equity balance.

Financial Condition

Portfolio Review

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During the nine months ended September 30, 2018, on an aggregate basis, we purchased \$6.7 billion of investments, sold \$791 million of investments and received \$2.2 billion in principal payments related to our Agency, Non-Agency RMBS and Loans held for investments portfolio.

The following table summarizes certain characteristics of our portfolio at September 30, 2018 and December 31, 2017.

	September 30, December 31,		
	2018	2017	
Interest earning assets at period-end ⁽¹⁾	\$24,643,358	\$20,894,407	
Interest bearing liabilities at period-end	\$20,137,699	\$16,844,889	
GAAP Leverage at period-end	5.1:1	4.6:1	
GAAP Leverage at period-end (recourse)	2.8:1	2.0:1	
Portfolio Composition, at amortized cost			
Non-Agency RMBS	5.1	% 5.9	%
Senior	3.0	% 2.9	%
Senior, interest only	1.2	% 1.3	%
Subordinated	0.9	% 1.7	%
Subordinated, interest only	0.0	% 0.0	%
RMBS transferred to consolidated VIEs	2.4	% 4.6	%
Agency MBS	40.6	% 22.2	%
Residential	29.2	% 11.8	%
Commercial	10.9	% 9.8	%
Interest-only	0.5	% 0.6	%
Loans held for investment	51.9	% 67.3	%
Fixed-rate percentage of portfolio	95.3	% 93.7	%
Adjustable-rate percentage of portfolio	4.7	% 6.3	%
Annualized yield on average interest earning assets for the quarters ended	5.8	% 6.3	%
Annualized cost of funds on average borrowed funds for the quarters ended ⁽²⁾	3.6	% 3.6	%

(1) Excludes cash and cash equivalents.

(2) Includes the effect of realized losses on interest rate swaps.

GAAP leverage at period-end is calculated as a ratio of our repurchase agreements and securitized debt liabilities over GAAP book value. GAAP recourse leverage is calculated as a ratio of our repurchase agreements over GAAP book value.

The following table presents details of each asset class in our portfolio at September 30, 2018 and December 31, 2017. The principal or notional value represents the interest income earning balance of each class. The weighted average figures are weighted by each investment's respective principal/notional value in the asset class.

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September 30, 2018

	Principal or Notional Value at Period-End (dollars in thousands)	Weighted Average Amortized Cost Basis	Weighted Average Fair Value	Weighted Average Coupon	Weighted Average Yield at Period-End	Weighted Average 3 Month CPR at Period-End	Weighted Average 12 Month CPR at Period-End	Weighted Average Delinquency Pipeline 60+	Weighted Average Loss Severity	Weighted Average Credit Enhancement	Principal Written-downs During the Quarter (dollars in thousands)
Non-Agency Mortgage-Backed Securities											
Senior	\$1,101,926	\$63.92	\$82.89	4.5 %	10.8 %	14.7 %	14.7 %	17.7 %	43.6 %	8.2 %	\$1,422
Senior, interest only	\$5,818,269	\$5.07	\$4.10	1.2 %	8.9 %	13.3 %	13.7 %	11.1 %	55.5 %	0.0 %	\$—
Subordinated	\$379,077	\$57.66	\$73.34	4.3 %	11.0 %	15.6 %	17.2 %	12.8 %	44.1 %	9.3 %	\$2,595
Subordinated, interest only	\$244,298	\$4.36	\$5.17	1.2 %	16.1 %	15.2 %	15.2 %	9.4 %	31.8 %	0.0 %	\$—
RMBS transferred to consolidated VIEs	\$1,337,788	\$42.16	\$79.62	5.2 %	28.8 %	15.8 %	15.5 %	17.0 %	51.9 %	0.1 %	\$4,324
Agency Mortgage-Backed Securities											
Residential	\$6,730,675	\$103.18	\$101.19	4.0 %	3.5 %	7.7 %	11.8 %	0.3 %	N/A	N/A	\$—
Commercial	\$2,532,460	\$102.00	\$97.75	3.6 %	3.4 %	0.0 %	0.1 %	7.6 %	N/A	N/A	\$—
Interest-only	\$2,865,073	\$4.32	\$4.17	0.8 %	4.1 %	3.7 %	5.8 %	0.2 %	N/A	N/A	\$—
Loans held for investment	\$12,566,422	\$98.34	\$101.45	6.5 %	5.8 %	11.0 %	10.3 %	5.6 %	54.6 %	N/A	\$29,670

(1) Bond Equivalent Yield at period end. Weighted Average Yield is calculated using each investment's respective amortized cost.

(2) Calculated based on reported losses to date, utilizing widest data set available (i.e., life-time losses, 12-month loss, etc.)

December 31, 2017

	Principal or Notional Value at Period-End (dollars in thousands)	Weighted Average Amortized Cost Basis	Weighted Average Fair Value	Weighted Average Coupon	Weighted Average Yield at Period-End	Weighted Average 3 Month CPR at Period-End	Weighted Average 12 Month CPR at Period-End	Weighted Average Delinquency Pipeline 60+	Weighted Average Loss Severity	Weighted Average Credit Enhancement	Principal Written-downs During the Quarter (dollars in thousands)
Non-Agency Mortgage-Backed Securities											
Senior	\$821,869	\$68.97	\$79.83	3.6 %	7.4 %	13.3 %	13.7 %	21.3 %	45.8 %	9.2 %	\$3,233
Senior, interest only	\$4,834,289	\$5.39	\$4.27	1.3 %	7.8 %	13.6 %	14.4 %	17.1 %	52.5 %	0.0 %	\$—
Subordinated	\$501,455	\$66.77	\$80.01	4.1 %	9.6 %	18.8 %	15.4 %	15.2 %	45.1 %	16.8 %	\$3,502
Subordinated, interest only	\$201,378	\$3.66	\$3.89	0.8 %	11.8 %	13.7 %	14.6 %	13.0 %	46.2 %	0.0 %	\$—
	\$1,940,229	\$47.05	\$81.42	4.9 %	22.6 %	15.0 %	16.4 %	17.9 %	49.0 %	1.3 %	\$10,678

RMBS transferred to
consolidated VIEs

Agency

Mortgage-Backed
Securities

Residential	\$2,227,128	\$105.53	\$104.27	3.8 %	2.9 %	12.1 %	14.5 %	0.7 %	N/A	N/A	\$—
Commercial	\$1,894,594	\$102.26	\$102.31	3.6 %	3.2 %	1.5 %	— %	0.0 %	N/A	N/A	\$—
Interest-only	\$3,021,840	\$3.68	\$3.45	0.7 %	3.4 %	4.9 %	8.8 %	0.1 %	N/A	N/A	\$—
Loans held for investment	\$13,525,820	\$98.44	\$101.20	6.5 %	5.9 %	10.8 %	11.0 %	4.1 %	45.8 %	N/A	\$30,469

(1) Bond Equivalent Yield at period end. Weighted Average Yield is calculated using each investment's respective amortized cost.

(2) Calculated based on reported losses to date, utilizing widest data set available (i.e., life-time losses, 12-month loss, etc.)

Based on the projected cash flows for our Non-Agency RMBS that are not of high credit quality, a portion of the original purchase discount is designated as Accretable Discount, which reflects the purchase discount expected to be accreted into interest income, and a portion is designated as Non-Accretable Difference, which represents the contractual principal on the security that is not expected to be collected. The amount designated as Non-Accretable Difference may be adjusted over time, based on the actual performance of the security, its underlying collateral, actual and projected cash flow from such collateral, economic conditions and other factors. If the performance of a security is more favorable than previously estimated, a portion of the amount designated as Non-Accretable Difference may be transferred to accretable discount and accreted into interest income over time. Conversely, if the performance of a security is less favorable than previously estimated, an OTTI may be recognized resulting in an increase in the amounts designated as Non-Accretable Difference.

The following table presents changes to Accretable Discount (net of premiums) as it pertains to our Non-Agency RMBS portfolio, excluding premiums on IOs, during the previous five quarters.

Accretable Discount (Net of Premiums)	For the Quarters Ended				
	September 30, 2018	October 31, 2018	March 31, 2018	December 31, 2017	September 30, 2017
	(dollars in thousands)				
Balance, beginning of period	\$540,269	\$555,444	\$582,193	\$ 622,982	\$ 627,724
Accretion of discount	(35,184)	(38,110)	(37,309)	(39,640)	(43,502)
Purchases	1,966	3,098	—	(2,914	)1,723
Sales and deconsolidation	(986)	(6,439)	174	—	5,792
Transfers from/(to) credit reserve, net	32,955	26,276	10,386	1,765	31,245
Balance, end of period	\$539,020	\$540,269	\$555,444	\$ 582,193	\$ 622,982

Liquidity and Capital Resources

General

Liquidity measures our ability to meet cash requirements, including ongoing commitments to repay our borrowings, purchase RMBS, mortgage loans and other assets for our portfolio, pay dividends and other general business needs. Our principal sources of capital and funds for additional investments primarily include earnings, principal paydowns and sales from our investments, borrowings under securitizations and re-securitizations, repurchase agreements and other financing facilities including warehouse facilities, and proceeds from equity or other securities offerings. We also maintain a certain amount of liquid, un-levered securities that we can either finance with recourse or sell if we have liquidity needs.

To meet our short term (one year or less) liquidity needs, we expect to continue to borrow funds in the form of repurchase agreements and, subject to market conditions, other types of financing. The terms of the repurchase transaction borrowings under our master repurchase agreements generally conform to the terms in the standard master repurchase agreement as published by the Securities Industry and Financial Markets Association, or SIFMA, as to repayment, margin requirements and the segregation of all securities we have initially sold under the repurchase transaction. In addition, each lender typically requires that we include supplemental terms and conditions to the standard master repurchase agreement. Typical supplemental terms and conditions include changes to the margin maintenance requirements, required haircuts or the percentage that is subtracted from the value of RMBS that collateralizes the financing, purchase price maintenance requirements, and requirements that all disputes related to the repurchase agreement be litigated or arbitrated in a particular jurisdiction. These provisions may differ for each of our lenders.

Based on our current portfolio, leverage ratio and available borrowing arrangements, we believe our assets will be sufficient to enable us to meet anticipated short-term liquidity requirements. However, a decline in the value of our collateral could cause a temporary liquidity shortfall due to the timing of margin calls on the financing arrangements and the actual receipt of the cash related to principal paydowns. If our cash resources are insufficient to satisfy our liquidity requirements, we may have to sell investments, potentially at a loss, issue debt or additional common or preferred equity securities.

To meet our longer term liquidity needs (greater than one year), we expect our principal sources of capital and funds to continue to be provided by earnings, principal paydowns and sales from our investments, borrowings under securitizations and re-securitizations, repurchase agreements and other financing facilities, as well as proceeds from equity or other securities offerings.

In addition to the principal sources of capital described above, we may enter into warehouse facilities and use longer dated structured repurchase agreements. The use of any particular source of capital and funds will depend on market conditions, availability of these facilities, and the investment opportunities available to us.

Current Period

We held cash and cash equivalents of approximately \$121 million and \$64 million at September 30, 2018 and December 31, 2017, respectively. As a result of our operating, investing and financing activities described below, our cash position increased by \$57 million from December 31, 2017 to September 30, 2018.

Our operating activities provided net cash of approximately \$490 million and \$309 million for the nine months ended September 30, 2018 and 2017, respectively. The cash provided by our operations is primarily due to interest received in excess of interest paid during the period. For the nine months ended September 30, 2018 and 2017, interest received net of interest paid was \$487 million and \$434 million, respectively.

Our investing activities used cash of \$3.7 billion and \$4.1 billion for the nine months ended September 30, 2018 and 2017, respectively. During the nine months ended September 30, 2018, we used cash for investment purchases of \$6.7 billion, primarily Agency MBS and Loans held for investments. This cash used was offset in part by cash received for principal repayments on our Agency MBS, Non-Agency MBS, and Loans held for investments of \$2.2 billion and sale of investments of \$791 million. During the nine months ended September 30, 2017, we purchased investments of \$6.8 billion, primarily Loans held for investments. This cash used was offset in part by cash received for principal repayments on our Agency MBS, Non-Agency MBS and securitized loans of \$2.1 billion and investment sales of \$698 million.

Our financing activities provided cash of \$3.3 billion and \$3.6 billion for the nine months ended September 30, 2018 and 2017, respectively. During the nine months ended September 30, 2018, we received cash from Series C preferred stock offering of \$252 million, debt issuance of \$1.4 billion and net proceeds received on our repurchase agreements of \$3.9 billion. These receipts of cash were offset in part by cash used for repayment of principal on our securitized debt of \$2.0 billion, common and preferred dividends paid of \$309 million, and repurchase of common stock of \$15 million. During the nine months ended September 30, 2017, we received cash of \$4.2 billion from debt issuance, \$314 million from our Series B preferred stock offering and \$1.1 billion from net proceeds received on repurchase agreements. This cash provided was offset in part by repayment of principal on our securitized debt of \$1.7 billion and common and preferred dividends paid of \$308 million.

Our recourse leverage is 2.8:1 and 2.0:1 for the nine months ended September 30, 2018 and for the year ended December 31, 2017. Our recourse leverage excludes the securitized debt which can only be repaid from the proceeds on the assets securing this debt in their respective VIEs. Our recourse leverage is presented as a ratio of our repurchase agreements, which are recourse to the assets of the Company, to our equity.

We believe that our cash balances and liquid Agency portfolio provides an appropriate level of liquidity. Even though we have unrestricted Agency MBS investments, we expect to meet our future cash needs primarily from principal and interest payments on our portfolio and do not anticipate the need to sell unrestricted Agency MBS investments to meet our liquidity needs. We expect to continue to finance our MBS portfolio largely through repurchase agreements and loans through the securitization market. In addition, we may from time to time sell securities, issue debt, or issue equity as a source of cash to fund new purchases.

At September 30, 2018 and December 31, 2017 the remaining maturities on our RMBS and loan repurchase agreements were as follows.

	September 30, 2018	December 31, 2017
	(dollars in thousands)	
Overnight	\$ 123,417	\$ —
1 to 29 days	4,622,550	4,745,342
30 to 59 days	3,832,236	1,206,769
60 to 89 days	1,208,344	592,865
90 to 119 days	25,196	—
Greater than or equal to 120 days	1,331,359	705,476
Total	\$ 11,143,102	\$ 7,250,452

Average remaining maturity of Repurchase agreements secured by:

Agency MBS	31 days	28 days
Non-agency MBS and Loans held for investment	101 days	93 days

We collateralize the repurchase agreements we use to finance our operations with our MBS investments. Our counterparties negotiate a ‘haircut’, which is the difference expressed in percentage terms between the fair value of the collateral and the amount the counterparty will lend to us, when we enter into a financing transaction. The size of the haircut reflects the perceived risk associated with holding the MBS by the lender. The haircut provides lenders with a cushion for daily market value movements that reduce the need for a margin call to be issued or margin to be returned as normal daily increases or decreases in MBS market values occur. At September 30, 2018, and December 31, 2017, the weighted average haircut on our repurchase agreements collateralized by Agency MBS was 4.8% and 5.1%, respectively. At September 30, 2018, the weighted average haircut on our repurchase agreements collateralized by Non-Agency MBS and Loans held for investments was 25.4% compared to 26.2% at December 31, 2017. At September 30, 2018, the weighted average borrowing rates for our repurchase agreements collateralized by Agency MBS was 2.25% and Non-Agency MBS and Loans held for investments was 3.87%. At December 31, 2017, the weighted average borrowing rates for our repurchase agreements collateralized by Agency MBS was 1.47% and Non-Agency MBS and Loans held for investment was 3.41%, respectively.

As the fair value of the Non-Agency MBS is more difficult to determine, as well as more volatile period to period than Agency MBS, the Non-Agency MBS typically requires a larger haircut. In addition, when financing assets using standard form of SIFMA Master Repurchase Agreements, the counterparty to the agreement typically nets its exposure to us on all outstanding repurchase agreements and issues margin calls if movement of the fair values of the assets in the aggregate exceeds their allowable exposure to us. A decline in asset fair values could create a margin call, or may create no margin call depending on the counterparty’s specific policy. In addition, counterparties consider a number of factors, including their aggregate exposure to us as a whole and the number of days remaining before the repurchase transaction closes prior to issuing a margin call. See Note 5 to our Consolidated Financial Statements for a discussion on how we determine the fair values of the RMBS collateralizing our repurchase agreements.

The table below presents our average daily repurchase balance and the repurchase balance at each period end for the periods presented. Our balance at period-end tends to fluctuate from the average daily balances due to the adjusting of the size of our portfolio by using leverage. We continue to deploy capital for strategic purchases of investments.

Period	Average Repurchase Balance	Repurchase Balance at Period End
	(dollars in thousands)	
Quarter End September 30, 2018	\$ 10,235,288	\$ 11,143,102
Quarter End June 30, 2018	\$ 8,527,325	\$ 9,127,048

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Quarter End March 31, 2018	\$7,257,048	\$7,202,924
Quarter End December 31, 2017	\$7,028,460	\$7,250,452
Quarter End September 30, 2017	\$6,549,891	\$6,709,821

We are not required to maintain any specific debt-to-equity ratio. We believe the appropriate leverage for the particular assets we are financing depends on the credit quality and risk of those assets. At September 30, 2018 and December 31, 2017, the carrying value of our total debt was approximately \$20.1 billion and \$16.8 billion, respectively, which represented a debt-to-

equity ratio for both periods of approximately 5.1:1 and 4.6:1. We include our repurchase agreements and securitized debt in the numerator of our debt-to-equity ratio and stockholders' equity as the denominator.

At September 30, 2018, we had repurchase agreements with 29 counterparties. All of our repurchase agreements are secured by Agency, Non-Agency RMBS and Loans held for investments or, in limited circumstances, cash. Under these repurchase agreements we may not be able to reclaim our collateral but still be obligated to pay our repurchase obligations. We mitigate this risk by spreading our exposure to multiple counterparties, as well as ensuring our counterparties are highly rated. Therefore, we believe the risk of loss of our collateral posted is mitigated by the terms of our agreements. As of September 30, 2018 and December 31, 2017, we had \$12.6 billion and \$8.8 billion, respectively, of securities pledged against our repurchase agreement obligations.

At September 30, 2018, our repurchase agreements have original maturities ranging from less than 30 days to 394 days and a weighted average original maturity of 99 days. We expect to renew most of our repurchase agreements at maturity. When we renew our repurchase agreements, there is a risk that we will not be able to obtain as favorable an interest rate as a result of rising rates.

We offset the interest rate risk of our repurchase agreements primarily through the use of interest rate swaps, swaptions and treasury futures. The average remaining maturities on our interest rate swaps at September 30, 2018 range from less than 1 year to 30 years and have a weighted average maturity of approximately 6 years. All of our swaps are cleared by a central clearing house. When our interest rate swaps are in a net loss position (expected cash payments are in excess of expected cash receipts on the swaps), we post collateral as required by the terms of our swap agreements. We have two swaption counterparties and two futures counterparties.

Exposure to Financial Counterparties

We actively manage the number of repurchase agreement counterparties. The following table summarizes our exposure to our repurchase agreement counterparties at September 30, 2018:

Country	Number of Counterparties	Repurchase Agreement Financing	Interest Rate Swaps at Fair Value	Exposure ⁽¹⁾
(dollars in thousands)				
United States	13	\$4,364,561	\$13,185	\$418,427
Japan	4	1,926,905	—	281,071
Canada	4	1,884,346	—	202,887
Switzerland	1	1,120,208	—	365,948
France	2	575,097	203,622	79,988
United Kingdom	2	502,432	—	23,409
China	1	330,696	—	14,796
South Korea	1	302,373	—	17,320
Netherlands	1	136,484	—	6,806
Total	29	\$11,143,102	\$216,807	\$1,410,652

(1) Represents the amount of securities pledged as collateral to each counterparty less the aggregate of repurchase agreement financing and unrealized loss on swaps for each counterparty.

Over the past several years, several large European financial institutions have experienced financial difficulty and have been either rescued by government assistance or by other large European banks or institutions. Some of these financial institutions or their U.S. subsidiaries have provided us financing under repurchase agreements or we have entered into interest rate swaps with such institutions. We have entered into repurchase agreements or exchange cleared interest rate swaps with 6 counterparties as of September 30, 2018 that are either domiciled in Europe or is a U.S.-based subsidiary of a European-domiciled financial institution.

If the European credit volatility, including countries that may choose to leave the Euro zone as Britain has, continues to impact these major European financial institutions, it is possible that it will also impact the operations of their U.S. subsidiaries. Our financings and operations could be adversely affected by such events. We monitor our exposure to our repurchase agreement and swap counterparties on a regular basis, using various methods, including review of recent rating agency actions, financial

relief plans, credit spreads or other developments and by monitoring the amount of cash and securities collateral pledged and the associated loan amount under repurchase agreements or the fair value of swaps with our counterparties. We make reverse margin calls on our counterparties to recover excess collateral as permitted by the agreements governing our financing arrangements or interest rate swaps, or may try to take other actions to reduce the amount of our exposure to a counterparty when necessary.

At September 30, 2018, we did not use credit default swaps or other forms of credit protection to hedge the exposures summarized in the table above.

Stockholders' Equity

In February 2018, our Board of Directors reauthorized \$100 million under our share repurchase program (the "Repurchase Program"). Such authorization does not have an expiration date and, at present, there is no intention to modify or otherwise rescind such authorization. Shares of our common stock may be purchased in the open market, including through block purchases, through privately negotiated transactions, or pursuant to any trading plan that may be adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended. The timing, manner, price and amount of any repurchases will be determined at our discretion and the program may be suspended, terminated or modified at any time for any reason. Among other factors, we intend to only consider repurchasing shares of our common stock when the purchase price is less than the last publicly reported book value per common share. In addition, we do not intend to repurchase any shares from directors, officers or other affiliates. The program does not obligate us to acquire any specific number of shares, and all repurchases will be made in accordance with Rule 10b-18, which sets certain restrictions on the method, timing, price and volume of stock repurchases.

Pursuant to our Repurchase Program, during the first quarter of 2018, we repurchased approximately 883 thousand shares of our common stock at an average price of \$16.81 per share for a total of \$15 million. Other than as discussed below under "Restricted Stock Grants," we did not issue any common shares during the quarters and nine months ended September 30, 2018 and 2017.

In September 2018, we issued 10,400,000 shares of 7.75% Series C Fixed-to-Floating Rate Cumulative Redeemable Preferred Stock, par value \$0.01 per share (the "Series C Preferred Stock"), at a public offering price of \$25.00 per share and for net proceeds to us of \$252 million. The Series C Preferred Stock is redeemable at \$25.00 per share plus accrued and unpaid dividends (whether or not authorized or declared) exclusively at our option commencing in September 30, 2025, subject to our right, under limited circumstances, to redeem the Series C Preferred Stock prior to that date. The initial dividend rate for the Series C Preferred Stock, from and including September 20, 2018, to but not including September 30, 2025, will be equal to 7.75% per annum of the \$25.00 liquidation preference per share (equivalent to the fixed annual rate of \$1.9375 per share). On and after September 30, 2025, dividends on the Series C Preferred Stock will accumulate at a percentage of the \$25.00 liquidation preference equal to an annual floating rate of the three-month LIBOR plus a spread of 4.743% per annum. The Series C Preferred Stock is entitled to receive, when and as declared, a dividend at a rate of 7.75% per year on the \$25.00 liquidation preference before the common stock is paid any dividends and is senior to the common stock with respect to distributions upon liquidation, dissolution or winding up.

The first dividend on the Series C Preferred Stock is scheduled to be paid on or about December 30, 2018 (long first dividend period), in the amount of \$0.53819 per share.

We declared dividends to Series A preferred stockholders of \$3 million and \$9 million, or \$0.50 and \$1.50, respectively, per preferred share during the quarter and nine months ended September 30, 2018 and 2017, respectively.

We declared dividends to Series B preferred stockholders of \$7 million and \$20 million, or \$0.50 and \$1.50 per preferred share, respectively, during the quarter and nine months ended September 30, 2018. We declared dividends to Series B preferred stockholders of \$7 million and \$15 million, or \$0.50 and \$1.18, respectively, per preferred share during the quarter and nine months ended September 30, 2017, respectively.

Restricted Stock Unit Grants

During the first quarter of 2018 and 2017, we granted certain of its employees Restricted Stock Units (“RSU”) awards. RSU awards are designed to reward certain employees of the Company for services provided over the previous year. Generally, the RSU awards vest equally over a three-year period beginning from the grant date and will fully vest after three years. The RSU awards are valued at the market price of our common stock on the grant date and the employees must be employed by us on the vesting dates to receive the RSU awards. We granted 241 thousand and 112 thousand RSU awards during the first quarter of 2018 and 2017, with a grant date fair value of \$4 million and \$2 million, respectively, which will be recognized as compensation expense on a straight-line basis over the three year vesting period.

During the first quarter of 2018 and 2017, we granted certain employees 133 thousand and 144 thousand Performance Share Units (“PSU”) awards, respectively. PSU awards are designed to align compensation with our future performance. The PSU awards include a three year performance period ending on December 31, 2020 and December 31, 2019, respectively. The final number of shares that will vest will be between 0% to 150% of the total PSU awards granted based on the stock performance of the Company as compared to an index of comparable financial institutions and will cliff vest at the end of the performance period. The PSU awards are measured at fair value on the grant date which will be recognized as compensation expense ratably over the three-year vesting period. Fair value is determined using a Monte Carlo valuation model developed to value the specific features of the PSU awards, including market based conditions. Inputs into the model include the Company’s historical volatility, the peer average historical volatility, and the correlation coefficient of the volatility. In addition, inputs also included the share price at the beginning of the measurement period and an estimated total shareholder return for both the Company and the peer group of comparable financial institutions. Based on the model results, the 133 thousand PSU awards granted during 2018 had a grant date value of \$2 million that will cliff vest on December 31, 2020. The 144 thousand PSU awards granted during 2017 had a grant date value of \$3 million which will cliff vest on December 31, 2019.

At September 30, 2018 and December 31, 2017, there were approximately 1 million and 770 thousand unvested shares of RSU’s issued to our employees, respectively.

Contractual Obligations and Commitments

The following tables summarize our contractual obligations at September 30, 2018 and December 31, 2017. The estimated principal repayment schedule of the securitized debt is based on expected cash flows of the residential mortgage loans or RMBS, as adjusted for expected principal writedowns on the underlying collateral of the debt. September 30, 2018

(dollars in thousands)

Contractual Obligations	Within One Year	One to Three Years	Three to Five Years	Greater Than or Equal to Five Years	Total
Repurchase agreements for RMBS	\$10,844,983	\$298,119	\$—	\$—	\$11,143,102
Securitized debt, collateralized by Non-Agency RMBS	26,494	34,560	8,184	3,797	73,035
Securitized debt at fair value, collateralized by loans held for investment	1,711,897	2,705,310	2,022,622	2,282,689	8,722,518
Interest expense on RMBS repurchase agreements ⁽¹⁾	58,937	953	—	—	59,890
Interest expense on securitized debt ⁽¹⁾	394,661	596,168	353,788	437,485	1,782,102
Total	\$13,036,972	\$3,635,110	\$2,384,594	\$2,723,971	\$21,780,647

(1) Interest is based on variable rates in effect as of September 30, 2018.

December 31, 2017
(dollars in thousands)

Contractual Obligations	Within One Year	One to Three Years	Three to Five Years	Greater Than or Equal to Five Years	Total
Repurchase agreements for RMBS	\$6,903,337	\$347,115	\$—	\$—	\$7,250,452
Securitized debt, collateralized by Non-Agency RMBS	42,217	45,916	16,524	4,867	109,524
Securitized debt at fair value, collateralized by loans held for investment	1,819,018	2,872,572	2,140,434	2,439,872	9,271,896
Interest expense on RMBS repurchase agreements ⁽¹⁾	30,091	978	—	—	31,069
Interest expense on securitized debt ⁽¹⁾	392,416	606,509	368,553	472,640	1,840,118
Total	\$9,187,079	\$3,873,090	\$2,525,511	\$2,917,379	\$18,503,059

(1) Interest is based on variable rates in effect as of December 31, 2017.

The unfunded construction loan commitments of \$898 million and \$567 million as of September 30, 2018 and December 31, 2017, respectively, will primarily be paid within one year of reported periods.

In addition to the investment in KAH Capital, through two wholly-owned subsidiaries, we have made a \$150 million capital commitment to Hains Point (Hains Point), which is KAH Capital's initial fund for which Chimera is the sole investor. KAH Capital will manage the investments in Hains Point including asset selection, repurchase and other financing arrangements as well as hedging transactions. Capital calls for investments made in Hains Point are subject to our consent and approval. KAH Capital will earn \$6.5 million over approximately 3 years for its investment advisory services.

Off-Balance Sheet Arrangements

We do not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. Further, we have not guaranteed any obligations of unconsolidated entities nor do we have any commitment or intent to provide funding to any such entities.

Capital Expenditure Requirements

At September 30, 2018 and December 31, 2017, we had no material commitments for capital expenditures.

Dividends

To qualify as a REIT, we must pay annual dividends to our stockholders of at least 90% of our taxable income (subject to certain adjustments). We intend to pay regular quarterly dividends to our stockholders. Before we pay any dividend, we must first meet any operating requirements and scheduled debt service on our financing facilities and other debt payable.

Inflation

A significant portion of our assets and liabilities are interest rate sensitive in nature. As a result, interest rates and other factors influence our performance far more so than does inflation. Changes in interest rates do not necessarily correlate with inflation rates or changes in inflation rates. Our consolidated financial statements are prepared in

accordance with GAAP and our distributions will be determined by our Board of Directors consistent with our obligation to distribute to our stockholders at least 90% of our REIT taxable income on an annual basis in order to maintain our REIT qualification; in each case, our activities and financial condition are measured with reference to historical cost or fair market value without considering inflation.

Other Matters

None.

Critical Accounting Policies and Estimates

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We prepare our financial statements in accordance with accounting principles generally accepted in the United States, or GAAP, which requires the use of estimates and assumptions. Management has discussed and reviewed the development, selection, and disclosure of critical accounting estimates with the Company's Audit Committee. Management believes that the most critical accounting policies and estimates, since these estimates require significant judgment, are interest income and other-than temporary impairment, or OTTI, on Non-Agency RMBS, the determination of the appropriate accounting model for Non-Agency RMBS, the impact of default and prepayment assumptions on RMBS, and fair value measurements. Financial results could be materially different if other methodologies were used or if management modified its assumptions.

For a discussion of the Company's critical accounting policies and estimates, see "Critical Accounting Policies and Estimates" in Part II, Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

Recent Accounting Pronouncements

Refer to Note 2(e) in the Notes to Consolidated Financial Statements for a discussion of accounting guidance recently adopted by the Company or expected to be adopted by the Company in the future.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

The primary components of our market risk are related to credit risk, interest rate risk, prepayment risk, market value risk and real estate risk. While we do not seek to avoid risk completely, we believe the risk can be quantified from historical experience and we seek to actively manage that risk, to earn sufficient compensation to justify taking those risks and to maintain capital levels consistent with the risks we undertake.

Credit Risk

We are subject to credit risk in connection with our investments in Non-Agency RMBS and residential mortgage loans and face more credit risk on assets we own which are rated below "AAA". The credit risk related to these investments pertains to the ability and willingness of the borrowers to pay, which is assessed before credit is granted or renewed and periodically reviewed throughout the loan or security term. We believe that residual loan credit quality, and thus the quality of our assets, is primarily determined by the borrowers' credit profiles and loan characteristics.

Prior to acquisition, we or a third party performs an independent review of the mortgage file to assess the origination and servicing of the mortgage loan as well as our ability to enforce the contractual rights in the mortgage. Depending on the size of the loans, we may not review all of the loans in a pool, but rather a sample of loans for underwriting review based upon specific risk-based criteria such as property location, loan size, effective loan-to-value ratio, borrower's credit score and other criteria we believe to be important indicators of credit risk. Additionally, we obtain representations and warranties from each seller with respect to the mortgage loans, including the origination and servicing of the mortgage loan as well as the enforceability of the lien on the mortgaged property. A seller who breaches these representations and warranties in making a loan that we purchase may be obligated to repurchase the loan from us. We use compensating factors such as liquid assets, low loan to value ratios and regional unemployment statistics in evaluating loans. Our resources include a robust portfolio management system, as well as third party software systems. We may utilize a third party due diligence firm to perform an independent underwriting review to ensure compliance with existing guidelines. In addition to statistical sampling techniques, we create adverse credit and valuation samples, which we individually review. We reject loans that fail to conform to our standards and do not meet our underwriting criteria. Once we own a loan, our surveillance process includes ongoing analysis through our proprietary data and servicer files.

Additionally, the Non-Agency RMBS and other ABS which we acquire for our portfolio are reviewed by us to ensure that they satisfy our risk based criteria. Our review of Non-Agency RMBS and other ABS includes utilizing a robust portfolio management system. Our review of Non-Agency RMBS and other ABS is based on quantitative and qualitative analysis of the risk-adjusted returns on Non-Agency RMBS and other ABS. This analysis includes an evaluation of the collateral characteristics supporting the RMBS such as borrower payment history, credit profiles, geographic concentrations, credit enhancement, seasoning, and other pertinent factors.

Interest Rate Risk

Interest rate risk is highly sensitive to many factors, including governmental, monetary and tax policies, domestic and international economic and political considerations and other factors beyond our control. We are subject to interest rate risk in connection with our investments and our related debt obligations, which are generally repurchase agreements, warehouse facilities and securitization/re-securitization trusts. Our repurchase agreements and warehouse facilities may be of limited

duration that is periodically refinanced at current market rates. We intend to mitigate this risk through utilization of derivative contracts, primarily interest rate swap agreements, swaptions, futures and mortgage options.

Interest Rate Effects on Net Interest Income

Our operating results depend, in large part, on differences between the income from our investments and our borrowing costs. Most of our warehouse facilities and repurchase agreements provide financing based on a floating rate of interest calculated on a fixed spread over LIBOR. The fixed spread varies depending on the type of underlying asset which collateralizes the financing. During periods of rising interest rates, the borrowing costs associated with our investments tend to increase while the income earned on our investments may remain substantially unchanged or decrease. This will result in a narrowing of the net interest spread between the related assets and borrowings and may even result in losses. Further, during this portion of the interest rate and credit cycles, defaults could increase and result in credit losses to us, which could adversely affect our liquidity and operating results. Such delinquencies or defaults could also have an adverse effect on the spread between interest-earning assets and interest-bearing liabilities. Hedging techniques are partly based on assumed levels of prepayments of our fixed-rate and hybrid adjustable-rate mortgage loans and RMBS. If prepayments are slower or faster than assumed, the life of the mortgage loans and RMBS will be longer or shorter, which would reduce the effectiveness of any hedging strategies we may use and may cause losses on such transactions.

Interest Rate Effects on Fair Value

Another component of interest rate risk is the effect changes in interest rates will have on the fair value of the assets we acquire. We face the risk that the fair value of our assets will increase or decrease at different rates than that of our liabilities, including our hedging instruments. We primarily assess our interest rate risk by estimating the duration of our assets compared to the duration of our liabilities and hedges. Duration essentially measures the market price volatility of financial instruments as interest rates change. We generally calculate duration using various financial models and empirical data. Different models and methodologies can produce different duration numbers for the same securities.

It is important to note that the impact of changing interest rates on fair value can change significantly when interest rates change beyond 100 basis points from current levels. Therefore, the volatility in the fair value of our assets could increase significantly when interest rates change beyond 100 basis points. In addition, other factors impact the fair value of our interest rate-sensitive investments and hedging instruments, such as the shape of the yield curve, market expectations as to future interest rate changes and other market conditions. Accordingly, in the event of changes in actual interest rates, the change in the fair value of our assets would likely differ from that shown below and such difference might be material and adverse to our stockholders.

Interest Rate Cap Risk

We may also invest in adjustable-rate mortgage loans and RMBS. These are mortgages or RMBS in which the underlying mortgages are typically subject to periodic and lifetime interest rate caps and floors, which limit the amount by which the security's interest yield may change during any given period. However, our borrowing costs pursuant to our financing agreements will not be subject to similar restrictions. Therefore, in a period of increasing interest rates, interest rate costs on our borrowings could increase without limitation by caps, while the interest-rate yields on our adjustable-rate mortgage loans and RMBS would effectively be limited. This problem will be magnified to the extent we acquire adjustable-rate RMBS that are not based on mortgages which are fully indexed. In addition, the mortgages or the underlying mortgages in an RMBS may be subject to periodic payment caps that result in some portion of the interest being deferred and added to the principal outstanding. This could result in our receipt of less cash income on our adjustable-rate mortgages or RMBS than we need in order to pay the interest cost on our related

borrowings. These factors could lower our net interest income or cause a net loss during periods of rising interest rates, which would harm our financial condition, cash flows and results of operations.

Interest Rate Mismatch Risk

We fund a substantial portion of our acquisitions of RMBS with borrowings that, after the effect of hedging, have interest rates based on indices and re-pricing terms similar to, but of somewhat shorter maturities than, the interest rate indices and re-pricing terms of the mortgages and RMBS. In most cases the interest rate indices and re-pricing terms of our mortgage assets and our funding sources will not be identical, thereby creating an interest rate mismatch between assets and liabilities. Our cost of funds would likely rise or fall more quickly than would our earnings rate on assets. During periods of changing interest rates, such interest rate mismatches could negatively impact our financial condition, cash flows and results of operations. To mitigate interest rate mismatches, we may utilize the hedging strategies discussed above. Our analysis of risks is based on our experience, estimates, models and assumptions. These analyses rely on models which utilize estimates of fair value and interest rate sensitivity. Actual economic conditions or implementation of investment decisions by our management may produce results

that differ significantly from the estimates and assumptions used in our models and the projected results shown in this Form 10-Q.

Our profitability and the value of our portfolio (including derivatives) may be adversely affected during any period as a result of changing interest rates. The following table quantifies the potential changes in net interest income and portfolio value for our Agency MBS portfolio and related swaptions, Treasury futures and our swap portfolio, interest rates go up or down 50 and 100 basis points, assuming parallel movements in the yield curves. All changes in income and value are measured as percentage changes from the projected net interest income and portfolio value at the base interest rate scenario. The base interest rate scenario assumes interest rates at September 30, 2018 and various estimates regarding prepayment and all activities are made at each level of rate change. Actual results could differ significantly from these estimates.

Change in Interest Rate	September 30, 2018		
	Projected Percentage Change in Projected Portfolio Percentage Value with Change Effect of in Net Interest Rate Interest Swaps and Income ⁽¹⁾ Other Hedging Transactions ⁽²⁾		
-100 Basis Points	7.34	% 0.05	%
-50 Basis Points	4.70	% 0.27	%
Base Interest Rate	—	—	
+50 Basis Points	(6.88)	%(0.68)	%
+100 Basis Points	(16.77)	%(1.66)	%

(1) Change in annual economic net interest income. Includes interest expense on interest rate swaps.

(2) Projected Percentage Change in Portfolio Value is based on instantaneous moves in interest rates.

Prepayment Risk

As we receive prepayments of principal on these investments, premiums and discounts on such investments will be amortized or accreted into interest income. In general, an increase in prepayment rates will accelerate the amortization of purchase premiums, thereby reducing the interest income earned on the investments. Conversely, discounts on such investments are accelerated and accreted into interest income increasing interest income.

Extension Risk

Management computes the projected weighted-average life of our investments based on assumptions regarding the rate at which the borrowers will prepay the underlying mortgages. In general, when fixed-rate or hybrid adjustable-rate mortgage loans or RMBS are acquired via borrowings, we may, but are not required to, enter into an interest rate swap agreement or other hedging instrument that attempts to fix our borrowing costs for a period close to the anticipated average life of the fixed-rate portion of the related assets. This strategy is designed to protect us from rising interest rates as the borrowing costs are managed to maintain a net interest spread for the duration of the fixed-rate portion of the related assets. However, if prepayment rates decrease in a rising interest rate environment, the

life of the fixed-rate portion of the related assets could extend beyond the term of the swap agreement or other hedging instrument. This could have a negative impact on our results from operations, as borrowing costs would no longer be fixed after the end of the hedging instrument while the income earned on the fixed and hybrid adjustable-rate assets would remain fixed. In extreme situations, we may be forced to sell assets to maintain adequate liquidity, which could cause us to incur losses.

Basis Risk

We seek to limit our interest rate risk by hedging portions of our portfolio through interest rate swaps and other types of hedging instruments. Interest rate swaps are generally tied to underlying Treasury benchmark interest rates. Basis risk relates to the risk of the spread between our RMBS and underlying hedges widening. Such a widening may cause a decline in the fair value of our RMBS that is greater than the increase in fair value of our hedges resulting in a net decline in book value. The widening of mortgage-backed securities yields and Treasury benchmark interest rates may result from a variety of factors such as anticipated or actual monetary policy actions or other market factors.

Market Risk

Market Value Risk

Certain of our available-for-sale securities are reflected at their estimated fair value with unrealized gains and losses excluded from earnings and reported in other comprehensive income if no OTTI has been recognized in earnings. The estimated fair value of these securities fluctuates primarily due to changes in interest rates, prepayment speeds, market liquidity, credit quality, and other factors. Generally, in a rising interest rate environment, the estimated fair value of these securities would be expected to decrease; conversely, in a decreasing interest rate environment, the estimated fair value of these securities would be expected to increase. As market volatility increases or liquidity decreases, the fair value of our investments may be adversely impacted.

Real Estate Market Risk

We own assets secured by real property and may own real property directly in the future. Residential property values are subject to volatility and may be affected adversely by a number of factors, including, but not limited to, national, regional and local economic conditions and unemployment (which may be adversely affected by industry slowdowns and other factors); local real estate conditions (such as an oversupply of housing); changes or continued weakness in specific industry segments; construction quality, age and design; demographic factors; natural disasters and other acts of God; and retroactive changes to building or similar codes. In addition, decreases in property values reduce the value of the collateral and the potential proceeds available to a borrower to repay our loans, which could also cause us to incur losses.

Risk Management

Subject to maintaining our REIT status, we seek to manage risk exposure to protect our portfolio of residential mortgage loans, RMBS, and other assets and related debt against the effects of major interest rate changes. We generally seek to manage risk by:

- monitoring and adjusting, if necessary, the reset index and interest rate related to our RMBS and our financings;
- attempting to structure our financing agreements to have a range of different maturities, terms, amortizations and interest rate adjustment periods;
- using derivatives, financial futures, swaps, options, caps, floors and forward sales to adjust the interest rate sensitivity of our investments and our borrowings;
- using securitization financing to lower average cost of funds relative to short-term financing vehicles further allowing us to receive the benefit of attractive terms for an extended period of time in contrast to short term financing and maturity dates of the investments not included in the securitization; and
- actively managing, through assets selection, on an aggregate basis, the interest rate indices, interest rate adjustment periods, and gross reset margins of our investments and the interest rate indices and adjustment periods of our financings.

Our efforts to manage our assets and liabilities are concerned with the timing and magnitude of the re-pricing of assets and liabilities. We attempt to control risks associated with interest rate movements. Methods for evaluating interest rate risk include an analysis of our interest rate sensitivity “gap,” which is the difference between interest-earning assets and interest-bearing liabilities maturing or re-pricing within a given time period. A gap is considered positive when the amount of interest-rate sensitive assets exceeds the amount of interest-rate sensitive liabilities. A gap is considered negative when the amount of interest-rate sensitive liabilities exceeds interest-rate sensitive assets. During a period of rising interest rates, a negative gap would tend to adversely affect net interest income, while a positive gap would tend to result in an increase in net interest income. During a period of falling interest rates, a negative gap would tend to result in an increase in net interest income, while a positive gap would tend to affect net interest income adversely. Because different types of assets and liabilities with the same or similar maturities may react differently to changes in overall market rates or conditions, changes in interest rates may affect net interest income positively or negatively even if an institution were perfectly matched in each maturity category.

The following table sets forth the estimated maturity or re-pricing of our interest-earning assets and interest-bearing liabilities at September 30, 2018. The amounts of assets and liabilities shown within a particular period were determined in accordance with the contractual terms of the assets and liabilities, except adjustable-rate loans, and securities are included in the period in which their interest rates are first scheduled to adjust and not in the period in which they mature and includes the effect of the interest rate swaps. The interest rate sensitivity of our assets and liabilities in the table could vary substantially based on actual prepayments.

September 30, 2018
(dollars in thousands)

	Within 3 Months	3-12 Months	1 Year to 3 Years	Greater than 3 Years	Total
Rate sensitive assets	\$ 193,549	\$ 1,010,867	\$—	\$ 23,457,389	\$ 24,661,805
Cash equivalents	121,046	—	—	—	121,046
Total rate sensitive assets	\$ 314,595	\$ 1,010,867	\$—	\$ 23,457,389	\$ 24,782,851
Rate sensitive liabilities	14,431,839	5,538,141	—	—	19,969,980
Interest rate sensitivity gap	\$(14,117,244)	\$(4,527,274)	\$—	\$ 23,457,389	\$ 4,812,871
Cumulative rate sensitivity gap	\$(14,117,244)	\$(18,644,518)	\$(18,644,518)	\$ 4,812,871	
Cumulative interest rate sensitivity gap as a percentage of total rate sensitive assets	(57	)%(75	)%(75	)% 19	%

Our analysis of risks is based on our management's experience, estimates, models and assumptions. These analyses rely on models which utilize estimates of fair value and interest rate sensitivity. Actual economic conditions or implementation of investment decisions by our management may produce results that differ significantly from the estimates and assumptions used in our models and the projected results shown in the above tables and in this Form 10-Q. These analyses contain certain forward-looking statements and are subject to the safe harbor statement set forth under the heading, "Special Note Regarding Forward-Looking Statements."

Item 4. Controls and Procedures

(a) Evaluation of Disclosure Controls and Procedures

As of the end of the period covered by this report, an evaluation of the effectiveness of the design and operation of the Company's disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934) was performed under the supervision and with the participation of the Company's senior management, including the Chief Executive Officer and the Chief Financial Officer. Based on that evaluation, the Company's management, including the Chief Executive Officer and the Chief Financial Officer, concluded that the Company's disclosure controls and procedures were effective as of the end of the period covered by this report.

(b) Changes in Internal Control over Financial Reporting

As required by Rule 13a-15(d) under the Exchange Act, the Company's management, including its Chief Executive Officer and Chief Financial Officer, has evaluated the Company's internal control over financial reporting to determine whether any changes occurred during the period covered by this quarterly report that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. Based on that evaluation, there has

been no such change during the third quarter of 2018.

Part II. Other Information

Item 1. Legal Proceedings

None.

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Item 1A. Risk Factors

Under “Part I — Item 1A — Risk Factors” of our 2017 Form 10-K, we set forth risk factors related to (i) risks associated with our investments, (ii) risks associated with our operations, (iii) risks associated with adverse developments in mortgage finance and credit markets, (iv) risks related to financing, (iv) risks related to accounting matters and our 1940 act exemption, (v) regulatory and legal risks, (vi) risks related to our capital stock and (vii) federal income tax risks. You should carefully consider the risk factors set forth in our 2017 Form 10-K. As of the date hereof, there have been no material changes to the risk factors set forth in our Form 10-K for the year ended December 31, 2017.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

In February 2018, our Board of Directors reauthorized \$100 million under our share repurchase program (the “Repurchase Program”).

Pursuant to our Repurchase Program, during the first quarter of 2018, we repurchased approximately 883 thousand of our common stock at an average price of \$16.81 per share for a total of \$15 million.

We did not repurchase any common stock for the quarter ended September 30, 2018. A summary of our repurchases of common stock for the nine months ended September 30, 2018 is as follows:

	Total Number of Common Shares Repurchased	Average Price Paid per Share	Total Number of Shares Purchased As Part of Publicly Announced Plans or Programs	Approximate Dollar Value of the Purchase	Approximate Dollar Value of Shares That May Yet be Purchased Under the Plans or Programs
2/1/2018 - 2/28/2018	399,989	\$ 16.83	399,989	\$6,730,682	\$93,269,318
3/1/2018 - 3/31/2018	482,694	\$ 16.79	482,694	\$8,104,317	\$85,165,001
	882,683	\$ 16.81	882,683	\$14,834,999	\$85,165,001

Item 3. Defaults Upon Senior Securities

None.

Item 4. Mine Safety Disclosures

None.

Item 5. Other Information

None.

Item 6. Exhibits
EXHIBIT INDEX

Exhibit Number	Description
3.1	<u>Articles of Amendment and Restatement of Chimera Investment Corporation (filed as Exhibit 3.1 to the Company's Registration Statement on Amendment No. 1 to Form S-11 (File No. 333-145525) filed on September 27, 2007 and incorporated herein by reference)</u>
3.2	<u>Articles of Amendment to the Articles of Amendment and Restatement of Chimera Investment Corporation (filed as Exhibit 3.1 to the Company's Report on Form 8-K filed on May 28, 2009 and incorporated herein by reference)</u>
3.3	<u>Articles of Amendment to the Articles of Amendment and Restatement of Chimera Investment Corporation (filed as Exhibit 3.1 to the Company's Report on Form 8-K filed on November 5, 2010 and incorporated herein by reference)</u>
3.4	<u>Articles of Amendment to the Articles of Amendment and Restatement of Chimera Investment Corporation (filed as Exhibit 3.1 to the Company's Report on Form 8-K filed on April 6, 2015 and incorporated herein by reference)</u>
3.5	<u>Articles of Amendment to the Articles of Amendment and Restatement of Chimera Investment Corporation (filed as Exhibit 3.2 to the Company's Report on Form 8-K filed on April 6, 2015 and incorporated herein by reference)</u>
3.6	<u>Articles Supplementary to the Articles of Amendment and Restatement of Chimera Investment Corporation designating the Company's 8.00% Series A Preferred Stock (filed as Exhibit 3.1 to the Company's Report on Form 8-K filed October 12, 2016 and incorporated herein by reference)</u>
3.7	<u>Articles Supplementary to the Articles of Amendment and Restatement of Chimera Investment Corporation designating the Company's 8.00% Series B Fixed-to-Floating Rate Cumulative Redeemable Preferred Stock, par value \$0.01 per share (filed with the SEC as Exhibit 3.7 to the Registrant's Registration Statement on Form 8-A filed on February 24, 2017 and incorporated herein by reference).</u>
3.8	<u>Articles Supplementary to the Articles of Amendment and Restatement of Chimera Investment Corporation designating the Company's 7.75% Series C Fixed-to-Floating Rate Cumulative Redeemable Preferred Stock (filed as Exhibit 3.8 to the Company's Report on Form 8-A filed September 18, 2018 and incorporated herein by reference)</u>
4.1	<u>Specimen Common Stock Certificate of Chimera Investment Corporation (filed as Exhibit 4.1 to the Company's Registration Statement on Amendment No. 1 to Form S-11 (File No. 333-145525) filed on September 27, 2007 and incorporated herein by reference)</u>
4.2	<u>Form of Series A Preferred Stock Certificate (filed as Exhibit 4.1 to the Company's Report on Form 8-K filed October 12, 2016 and incorporated herein by reference)</u>
4.3	<u>Form of Series B Preferred Stock Certificate (filed with the SEC as Exhibit 4.1 to the Registrant's Registration Statement on Form 8-A filed on February 24, 2017 and incorporated herein by reference).</u>
4.4	<u>Form of specimen certificate representing the shares of 7.75% Series C Fixed-to-Floating Rate Cumulative Redeemable Preferred Stock (filed as Exhibit 4.1 to the Company's Report on Form 8-A filed September 18, 2018 and incorporated herein by reference)</u>
31.1	<u>Certification of Matthew Lambiase, Chief Executive Officer and President of the Registrant, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
31.2	<u>Certification of Rob Colligan, Chief Financial Officer of the Registrant, pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
32.1	<u>Certification of Matthew Lambiase, Chief Executive Officer and President of the Registrant, pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
32.2	<u>Certification of Rob Colligan, Chief Financial Officer of the Registrant, pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>

101.INS* XBRL Instance Document

101.SCH* XBRL Taxonomy Extension Schema Document

101.CAL*XBRL Taxonomy Extension Calculation Linkbase Document

101.LAB*XBRL Taxonomy Extension Labels Linkbase Document

101.PRE* XBRL Taxonomy Extension Presentation Linkbase Document

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101.DEF* XBRL Taxonomy Extension Definition Linkbase Document

* This exhibit is being furnished rather than filed, and shall not be deemed incorporated by reference into any filing, in accordance with Item 601 of Regulation S-K

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

CHIMERA INVESTMENT CORPORATION

By: /s/ Matthew Lambiase
Matthew Lambiase
(Chief Executive Officer and President
and duly authorized officer of the registrant)

Date: November 1, 2018

By: /s/ Rob Colligan
Rob Colligan
(Chief Financial Officer
and principal financial officer of the registrant)

Date: November 1, 2018