

MFA FINANCIAL, INC.  
Form 10-Q  
August 02, 2018  
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UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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FORM 10-Q  
(Mark One)

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

For the quarterly period ended June 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: 1-13991

MFA FINANCIAL, INC.  
(Exact name of registrant as specified in its charter)

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Maryland (State or other jurisdiction of incorporation or organization)	13-3974868 (I.R.S. Employer Identification No.)
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350 Park Avenue, 20th Floor, New York, New York (Address of principal executive offices)	10022 (Zip Code)
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(212) 207-6400  
(Registrant's telephone number, including area code)

Not Applicable

(Former name, former address and former fiscal year, if changed since last period)

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

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

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

Large accelerated filer

Accelerated filer

Non-accelerated filer  (Do not check if a smaller reporting company)

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).

398,532,534 shares of the registrant’s common stock, \$0.01 par value, were outstanding as of July 30, 2018.

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Signatures

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CONSOLIDATED BALANCE SHEETS

(In Thousands Except Per Share Amounts)	June 30, 2018 (Unaudited)	December 31, 2017
<b>Assets:</b>		
Mortgage-backed securities (“MBS”) and credit risk transfer (“CRT”) securities:		
Agency MBS, at fair value (\$2,286,409 and \$2,727,510 pledged as collateral, respectively)	\$2,362,897	\$2,824,681
Non-Agency MBS, at fair value (\$2,447,432 and \$2,379,523 pledged as collateral, respectively)	3,242,967	3,533,966
CRT securities, at fair value (\$516,486 and \$595,900 pledged as collateral, respectively)	571,955	664,403
Mortgage servicing rights (“MSR”) related assets (\$381,390 and \$482,158 pledged as collateral, respectively)	381,390	492,080
Residential whole loans, at carrying value (\$396,856 and \$448,689 pledged as collateral, respectively) (1)	1,906,242	908,516
Residential whole loans, at fair value (\$952,335 and \$996,226 pledged as collateral, respectively) (1)	1,502,986	1,325,115
Cash and cash equivalents	54,880	449,757
Restricted cash	3,298	13,307
Other assets	618,148	742,909
<b>Total Assets</b>	<b>\$10,644,763</b>	<b>\$10,954,734</b>
<b>Liabilities:</b>		
Repurchase agreements	\$5,892,228	\$6,614,701
Payable for unsettled MBS and residential whole loans purchases	567,915	—
Other liabilities	978,007	1,078,397
<b>Total Liabilities</b>	<b>\$7,438,150</b>	<b>\$7,693,098</b>
Commitments and contingencies (See Note 10)		
<b>Stockholders’ Equity:</b>		
Preferred stock, \$.01 par value; 7.50% Series B cumulative redeemable; 8,050 shares authorized;	\$80	\$80
8,000 shares issued and outstanding (\$200,000 aggregate liquidation preference)		
Common stock, \$.01 par value; 886,950 shares authorized; 398,533 and 397,831 shares issued and outstanding, respectively	3,985	3,978
Additional paid-in capital, in excess of par	3,230,055	3,227,304
Accumulated deficit	(592,218)	(578,950)
Accumulated other comprehensive income	564,711	609,224
<b>Total Stockholders’ Equity</b>	<b>\$3,206,613</b>	<b>\$3,261,636</b>
<b>Total Liabilities and Stockholders’ Equity</b>	<b>\$10,644,763</b>	<b>\$10,954,734</b>

(1) Includes approximately \$199.8 million and \$183.2 million of Residential whole loans, at carrying value and \$476.2 million and \$289.3 million of Residential whole loans, at fair value transferred to consolidated variable interest entities (“VIEs”) at June 30, 2018 and December 31, 2017, respectively. Such assets can be used only to settle the obligations of the VIEs.

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

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CONSOLIDATED STATEMENTS OF OPERATIONS  
(UNAUDITED)

(In Thousands, Except Per Share Amounts)	Three Months Ended		Six Months Ended	
	June 30,	June 30,	June 30,	June 30,
	2018	2017	2018	2017
Interest Income:				
Agency MBS	\$13,170	\$16,587	\$28,463	\$34,481
Non-Agency MBS	55,043	70,269	111,145	149,477
CRT securities	8,695	7,846	18,191	14,222
MSR related assets	6,219	5,905	13,842	10,639
Residential whole loans held at carrying value	17,935	8,503	32,264	17,193
Cash and cash equivalent investments	685	1,047	1,594	1,402
Interest Income	\$101,747	\$110,157	\$205,499	\$227,414
Interest Expense:				
Repurchase agreements and other advances	\$46,234	\$46,802	\$91,951	\$95,141
Other interest expense	5,576	2,220	10,413	4,230
Interest Expense	\$51,810	\$49,022	\$102,364	\$99,371
Net Interest Income	\$49,937	\$61,135	\$103,135	\$128,043
Other-Than-Temporary Impairments:				
Total other-than-temporary impairment losses	\$—	\$—	\$—	\$(63 )
Portion of loss reclassified from other comprehensive income	—	(618 )	—	(969 )
Net Impairment Losses Recognized in Earnings	\$—	\$(618 )	\$—	\$(1,032 )
Other Income, net:				
Net gain on residential whole loans held at fair value	\$32,443	\$16,208	\$70,941	\$29,981
Net gain on sales of investment securities	7,429	5,889	16,246	15,597
Other, net	1,134	14,847	1,479	19,359
Other Income, net	\$41,006	\$36,944	\$88,666	\$64,937
Operating and Other Expense:				
Compensation and benefits	\$7,038	\$7,573	\$13,786	\$15,366
Other general and administrative expense	5,582	5,754	9,414	9,979
Loan servicing and other related operating expenses	7,928	4,199	14,811	8,608
Operating and Other Expense	\$20,548	\$17,526	\$38,011	\$33,953
Net Income	\$70,395	\$79,935	\$153,790	\$157,995
Less Preferred Stock Dividends	3,750	3,750	7,500	7,500
Net Income Available to Common Stock and Participating Securities	\$66,645	\$76,185	\$146,290	\$150,495
Earnings per Common Share - Basic and Diluted	\$0.17	\$0.20	\$0.36	\$0.39
Dividends Declared per Share of Common Stock	\$0.20	\$0.20	\$0.40	\$0.40

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





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MFA FINANCIAL, INC.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME/(LOSS)

(UNAUDITED)

(In Thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Net income	\$70,395	\$79,935	\$153,790	\$157,995
Other Comprehensive Income/(Loss):				
Unrealized loss on Agency MBS, net	(9,641 )	(11,157 )	(18,331 )	(19,209 )
Unrealized (loss)/gain on Non-Agency MBS, net	(11,115 )	56,167	(38,308 )	83,663
Reclassification adjustment for MBS sales included in net income	(5,178 )	(5,656 )	(15,458 )	(15,602 )
Reclassification adjustment for other-than-temporary impairments included in net income	—	(618 )	—	(1,032 )
Derivative hedging instrument fair value changes, net	7,915	(1,017 )	27,584	10,880
Other Comprehensive (Loss)/Income	(18,019 )	37,719	(44,513 )	58,700
Comprehensive income before preferred stock dividends	\$52,376	\$117,654	\$109,277	\$216,695
Dividends declared on preferred stock	(3,750 )	(3,750 )	(7,500 )	(7,500 )
Comprehensive Income Available to Common Stock and Participating Securities	\$48,626	\$113,904	\$101,777	\$209,195

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

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MFA FINANCIAL, INC.

CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY  
(UNAUDITED)

(In Thousands, Except Per Share Amounts)	Six Months Ended June 30, 2018							
	Preferred Stock 7.50% Series B Cumulative Redeemable Liquidation Preference \$25.00 per Share	Common Stock	Shares	Amount	Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total
Balance at December 31, 2017	8,000	\$ 80	397,831	\$ 3,978	\$ 3,227,304	\$(578,950)	\$ 609,224	\$ 3,261,636
Cumulative effect adjustment on adoption of new accounting standard for revenue recognition	—	—	—	—	—	295	—	295
Net income	—	—	—	—	—	153,790	—	153,790
Issuance of common stock, net of expenses (1)	—	—	953	7	1,704	—	—	1,711
Repurchase of shares of common stock (1)	—	—	(251)	—	(1,957)	—	—	(1,957)
Equity based compensation expense	—	—	—	—	2,804	—	—	2,804
Accrued dividends attributable to stock-based awards	—	—	—	—	200	—	—	200
Dividends declared on common stock	—	—	—	—	—	(159,392)	—	(159,392)
Dividends declared on preferred stock	—	—	—	—	—	(7,500)	—	(7,500)
Dividends attributable to dividend equivalents	—	—	—	—	—	(461)	—	(461)
Change in unrealized gains on MBS, net	—	—	—	—	—	—	(72,097)	(72,097)
Derivative hedging instrument fair value changes, net	—	—	—	—	—	—	27,584	27,584
Balance at June 30, 2018	8,000	\$ 80	398,533	\$ 3,985	\$ 3,230,055	\$(592,218)	\$ 564,711	\$ 3,206,613
(In Thousands, Except Per Share Amounts)	Six Months Ended June 30, 2017							
	Preferred Stock 7.50% Series B Cumulative	Common Stock	Shares	Amount	Additional Paid-in Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total

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Redeemable  
-  
Liquidation  
Preference  
\$25.00 per  
Share

	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount
Balance at December 31, 2016	8,000	\$ 80	371,854	\$ 3,719	3,029,062	\$ (572,641 )	573,682	\$ 3,033,902
Net income	—	—	—	—	—	157,995	—	157,995
Issuance of common stock, net of expenses (1)	—	—	24,953	244	186,006	—	—	186,250
Repurchase of shares of common stock (1)	—	—	(496 )	—	(3,892 )	—	—	(3,892 )
Equity based compensation expense	—	—	—	—	3,300	—	—	3,300
Accrued dividends attributable to stock-based awards	—	—	—	—	225	—	—	225
Dividends declared on common stock	—	—	—	—	—	(153,855 )	—	(153,855 )
Dividends declared on preferred stock	—	—	—	—	—	(7,500 )	—	(7,500 )
Dividends attributable to dividend equivalents	—	—	—	—	—	(481 )	—	(481 )
Change in unrealized gains on MBS, net	—	—	—	—	—	—	47,820	47,820
Derivative hedging instruments fair value changes, net	—	—	—	—	—	—	10,880	10,880
Balance at June 30, 2017	8,000	\$ 80	396,311	\$ 3,963	3,214,701	\$ (576,482 )	632,382	\$ 3,274,644

(1) For the six months ended June 30, 2018 and 2017, includes approximately \$2.0 million (250,946 shares) and \$3.9 million (496,325 shares), respectively surrendered for tax purposes related to equity-based compensation awards.

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MFA FINANCIAL, INC.  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(UNAUDITED)

(In Thousands)	Six Months Ended June 30,	
	2018	2017
<b>Cash Flows From Operating Activities:</b>		
Net income	\$ 153,790	\$ 157,995
Adjustments to reconcile net income to net cash provided by operating activities:		
Gain on sales of MBS, CRT securities and U.S. Treasury securities	(16,246	) (15,597
Gain on sales of real estate owned	(4,673	) (2,039
Gain on liquidation of residential whole loans	(12,742	) (2,059
Other-than-temporary impairment charges	—	1,032
Accretion of purchase discounts on MBS and CRT securities, residential whole loans and MSR related assets	(40,948	) (46,179
Amortization of purchase premiums on MBS and CRT securities	12,508	16,002
Depreciation and amortization on real estate, fixed assets and other assets	805	439
Equity-based compensation expense	2,809	3,459
Unrealized gain on residential whole loans at fair value	(18,346	) (7,209
(Increase)/decrease in other assets and other	(23,061	) 3,101
Decrease in other liabilities	(10,091	) (10,660
Net cash provided by operating activities	\$43,805	\$98,285
<b>Cash Flows From Investing Activities:</b>		
Principal payments on MBS, CRT securities and MSR related assets	\$ 1,107,871	\$ 2,461,731
Proceeds from sales of MBS, CRT securities and U.S. Treasury securities	198,392	177,625
Purchases of MBS, CRT securities, MSR related assets and U.S. Treasury securities	(323,309	) (888,736
Purchases of residential whole loans and capitalized advances	(943,433	) (9,408
Principal payments on residential whole loans	174,713	69,615
Proceeds from sales of real estate owned	58,230	30,459
Purchases of real estate owned and capital improvements	(5,282	) (1,882
Redemption of Federal Home Loan Bank stock	—	10,422
Additions to leasehold improvements, furniture and fixtures	(551	) (333
Net cash provided by investing activities	\$266,631	\$1,849,493
<b>Cash Flows From Financing Activities:</b>		
Principal payments on repurchase agreements and other advances	\$(32,054,576)	\$(39,588,099)
Proceeds from borrowings under repurchase agreements	31,331,949	37,941,405
Proceeds from issuance of securitized debt	183,970	147,847
Principal payments on securitized debt	(28,639	) (2,652
Payments made for securitization related costs	(956	) (1,008
Payments made for settlements on interest rate swap agreements (“Swaps”)	(33,316	) (35,840
Proceeds from settlements on Swaps	51,711	—
Proceeds from issuances of common stock	1,711	186,250
Dividends paid on preferred stock	(7,500	) (7,500
Dividends paid on common stock and dividend equivalents	(159,676	) (149,433
Net cash used in financing activities	\$(715,322	) \$(1,509,030
Net (decrease)/increase in cash, cash equivalents and restricted cash	\$(404,886	) \$438,748
Cash, cash equivalents and restricted cash at beginning of period	\$463,064	\$318,575

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Cash, cash equivalents and restricted cash at end of period	\$58,178	\$757,323
Non-cash Investing and Financing Activities:		
Net decrease in securities obtained as collateral/obligation to return securities obtained as collateral	\$(248,550)	\$(2,782)
Transfer from residential whole loans to real estate owned	\$103,521	\$58,444
Dividends and dividend equivalents declared and unpaid	\$79,948	\$79,559

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

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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

JUNE 30, 2018

1. Organization

MFA Financial, Inc. (the “Company”) was incorporated in Maryland on July 24, 1997 and began operations on April 10, 1998. The Company has elected to be treated as a real estate investment trust (“REIT”) for U.S. federal income tax purposes. In order to maintain its qualification as a REIT, the Company must comply with a number of requirements under federal tax law, including that it must distribute at least 90% of its annual REIT taxable income to its stockholders. The Company has elected to treat certain of its subsidiaries as a taxable REIT subsidiary (“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. (See Note 2(o))

2. Summary of Significant Accounting Policies

(a) Basis of Presentation and Consolidation

The interim unaudited consolidated financial statements of the Company have been prepared in accordance with the rules and regulations of the Securities and Exchange Commission (the “SEC”). Certain information and note disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles (“GAAP”) have been condensed or omitted according to these SEC rules and regulations. Management believes that the disclosures included in these interim unaudited consolidated financial statements are adequate to make the information presented not misleading. The accompanying unaudited consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2017. In the opinion of management, all normal and recurring adjustments necessary to present fairly the financial condition of the Company at June 30, 2018 and results of operations for all periods presented have been made. The results of operations for the three and six months ended June 30, 2018 should not be construed as indicative of the results to be expected for the full year.

The accompanying consolidated financial statements of the Company have been prepared on the accrual basis of accounting in accordance with GAAP. 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 differ from those estimates, which could materially impact the Company’s results of operations and its financial condition. Management has made significant estimates in several areas, including other-than-temporary impairment (“OTTI”) on MBS (See Note 3), valuation of MBS, CRT securities and MSR related assets (See Notes 3 and 14), income recognition and valuation of residential whole loans (See Notes 4 and 14), valuation of derivative instruments (See Notes 5(c) and 14) and income recognition on certain Non-Agency MBS (defined below) purchased at a discount. (See Note 3) In addition, estimates are used in the determination of taxable income used in the assessment of REIT compliance and contingent liabilities for related taxes, penalties and interest. (See Note 2(o)) Actual results could differ from those estimates.

The Company has one reportable segment as it manages its business and analyzes and reports its results of operations on the basis of one operating segment; investing, on a leveraged basis, in residential mortgage assets.

The consolidated financial statements of the Company include the accounts of all subsidiaries; all intercompany accounts and transactions have been eliminated. In addition, the Company consolidates entities established to facilitate transactions related to the acquisition and securitization of residential whole loans as well as MBS resecuritization transactions completed in prior years. Certain prior period amounts have been reclassified to conform to the current period presentation.

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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

JUNE 30, 2018

(b) MBS and CRT Securities

The Company has investments in residential MBS that are issued or guaranteed as to principal and/or interest by a federally chartered corporation, such as the Federal National Mortgage Association (“Fannie Mae”) or the Federal Home Loan Mortgage Corporation (“Freddie Mac”), or an agency of the U.S. Government, such as the Government National Mortgage Association (“Ginnie Mae”) (collectively, “Agency MBS”), and residential MBS that are not guaranteed by any agency of the U.S. Government or any federally chartered corporation (“Non-Agency MBS”). In addition, the Company has investments in CRT securities that are issued by Fannie Mae and Freddie Mac. The coupon payments on CRT securities are paid by Fannie Mae and Freddie Mac and the principal payments received are based on the performance of loans in a reference pool of previously securitized MBS. As the loans in the underlying reference pool are paid, the principal balance of the CRT securities is paid. As an investor in a CRT security, the Company may incur a loss if certain defined credit events occur, including, for certain CRT securities, if the loans in the reference pool experience delinquencies exceeding specified thresholds.

Designation

The Company generally intends to hold its MBS until maturity; however, from time to time, it may sell any of its securities as part of the overall management of its business. As a result, all of the Company’s MBS are designated as “available-for-sale” (“AFS”) and, accordingly, are carried at their fair value with unrealized gains and losses excluded from earnings (except when an OTTI is recognized, as discussed below) and reported in Accumulated other comprehensive income/(loss) (“AOCI”), a component of Stockholders’ Equity.

Upon the sale of an AFS security, any unrealized gain or loss is reclassified out of AOCI to earnings as a realized gain or loss using the specific identification method.

The Company has elected the fair value option for certain of its CRT securities as it considers this method of accounting to more appropriately reflect the risk sharing structure of these securities. Such securities are carried at their fair value with changes in fair value included in earnings for the period and reported in Other Income, net on the Company’s consolidated statements of operations.

Revenue Recognition, Premium Amortization and Discount Accretion

Interest income on securities is accrued based on the outstanding principal balance and their contractual terms. Premiums and discounts associated with Agency MBS and Non-Agency MBS assessed as high credit quality at the time of purchase are amortized into interest income over the life of such securities using the effective yield method. Adjustments to premium amortization are made for actual prepayment activity.

Interest income on the Non-Agency MBS that were purchased at a discount to par value and/or are considered to be of less than high credit quality is recognized based on the security’s effective interest rate which is the security’s internal rate of return (“IRR”). The IRR is determined using management’s estimate of the projected cash flows for each security, which are based on the Company’s observation of current information and events and include assumptions related to fluctuations in interest rates, prepayment speeds and the timing and amount of credit losses. On at least a quarterly basis, the Company reviews and, if appropriate, makes adjustments to its cash flow projections based on input and analysis received from external sources, internal models, and its judgment about interest rates, prepayment rates, the timing and amount of credit losses, and other factors. Changes in cash flows from those originally projected, or from those estimated at the last evaluation, may result in a prospective change in the IRR/ interest income recognized on



these securities or in the recognition of OTTIs. (See Note 3)

Based on the projected cash flows from the Company's Non-Agency MBS purchased at a discount to par value, a portion of the purchase discount may be designated as non-accretable purchase discount ("Credit Reserve"), which effectively mitigates the Company's risk of loss on the mortgages collateralizing such MBS and is not expected to be accreted into interest income. The amount designated as Credit Reserve 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 with a Credit Reserve is more favorable than forecasted, a portion of the amount designated as Credit Reserve may be reallocated to accretable discount and recognized into interest income over time. Conversely, if the performance of a security with a Credit Reserve is less favorable than forecasted, the amount designated as Credit Reserve may be increased, or impairment charges and write-downs of such securities to a new cost basis could result.

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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

JUNE 30, 2018

Determination of Fair Value for MBS and CRT Securities

In determining the fair value of the Company's MBS and CRT securities, management considers a number of observable market data points, including prices obtained from pricing services, brokers and repurchase agreement counterparties, dialogue with market participants, as well as management's observations of market activity. (See Note 14)

Impairments/OTTI

When the fair value of an AFS security is less than its amortized cost at the balance sheet date, the security is considered impaired. The Company assesses its impaired securities on at least a quarterly basis and designates such impairments as either "temporary" or "other-than-temporary." If the Company intends to sell an impaired security, or it is more likely than not that it will be required to sell the impaired security before its anticipated recovery, then the Company must recognize an OTTI through charges to earnings equal to the entire difference between the investment's amortized cost and its fair value at the balance sheet date. If the Company does not expect to sell an other-than-temporarily impaired security, only the portion of the OTTI related to credit losses is recognized through charges to earnings with the remainder recognized through AOCI on the consolidated balance sheets. Impairments recognized through other comprehensive income/(loss) ("OCI") do not impact earnings. Following the recognition of an OTTI through earnings, a new cost basis is established for the security and may not be adjusted for subsequent recoveries in fair value through earnings. However, OTTIs recognized through charges to earnings may be accreted back to the amortized cost basis of the security on a prospective basis through interest income. The determination as to whether an OTTI exists and, if so, the amount of credit impairment recognized in earnings is subjective, as such determinations are based on factual information available at the time of assessment as well as the Company's estimates of the future performance and cash flow projections. As a result, the timing and amount of OTTIs constitute material estimates that are susceptible to significant change. (See Note 3)

Non-Agency MBS that are assessed to be of less than high credit quality and on which impairments are recognized have experienced, or are expected to experience, credit-related adverse cash flow changes. The Company's estimate of cash flows for its Non-Agency MBS is based on its review of the underlying mortgage loans securing the MBS. The Company considers information available about the past and expected future performance of underlying mortgage loans, including timing of expected future cash flows, prepayment rates, default rates, loss severities, delinquency rates, percentage of non-performing loans, year of origination, loan-to-value ratios ("LTVs"), geographic concentrations and dialogue with market participants. As a result, significant judgment is used in the Company's analysis to determine the expected cash flows for its Non-Agency MBS. In determining the OTTI related to credit losses for securities that were purchased at significant discounts to par and/or are considered to be of less than high credit quality, the Company compares the present value of the remaining cash flows expected to be collected at the purchase date (or last date previously revised) against the present value of the cash flows expected to be collected at the current financial reporting date. The discount rate used to calculate the present value of expected future cash flows is the current yield used for income recognition purposes. Impairment assessment for Non-Agency MBS and CRT securities that were purchased at prices close to par and/or are otherwise considered to be of high credit quality involves comparing the present value of the remaining cash flows expected to be collected against the amortized cost of the security at the assessment date. The discount rate used to calculate the present value of the expected future cash flows is based on the instrument's IRR.

Balance Sheet Presentation

The Company's MBS and CRT Securities pledged as collateral against repurchase agreements and Swaps are included on the consolidated balance sheets with the fair value of the securities pledged disclosed parenthetically. Purchases and sales of securities are recorded on the trade date.

(c) MSR Related Assets

The Company has investments in financial instruments whose cash flows are considered to be largely dependent on underlying MSRs that either directly or indirectly act as collateral for the investment. These financial instruments, which are referred to as MSR related assets, are discussed in more detail below. The Company's MSR related assets pledged as collateral against repurchase agreements are included in the consolidated balance sheets with the amounts pledged disclosed parenthetically. Purchases and sales of MSR related assets are recorded on the trade date. (See Notes 3, 6, 7 and 14)

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Term Notes Backed by MSR Related Collateral

The Company has invested in term notes that are issued by special purpose vehicles (“SPV”) that have acquired rights to receive cash flows representing the servicing fees and/or excess servicing spread associated with certain MSRs. The Company considers payment of principal and interest on these term notes to be largely dependent on the cash flows generated by the underlying MSRs as this impacts the cash flows available to the SPV that issued the term notes. Credit risk borne by the holders of the term notes is also mitigated by structural credit support in the form of over-collateralization. Credit support is also provided by a corporate guarantee from the ultimate parent or sponsor of the SPV that is intended to provide for payment of interest and principal to the holders of the term notes should cash flows generated by the underlying MSRs be insufficient.

The Company’s term notes backed by MSR related collateral are reported at fair value on the Company’s consolidated balance sheets with unrealized gains and losses excluded from earnings and reported in AOCI. Interest income is recognized on an accrual basis on the Company’s consolidated statements of operations. The Company’s valuation process for such notes considers a number of factors, including a comparable bond analysis performed by a third-party pricing service which involves determining a pricing spread at issuance of the term note. The pricing spread is used at each subsequent valuation date to determine an implied yield to maturity of the term note, which is then used to derive an indicative market value for the security. This indicative market value is further reviewed by the Company and may be adjusted to ensure it reflects a realistic exit price at the valuation date given the structural features of these securities. Other factors taken into consideration include indicative values provided by repurchase agreement counterparties, estimated changes in fair value of the related underlying MSR collateral and the financial performance of the ultimate parent or sponsoring entity of the issuer, which has provided a guarantee that is intended to provide for payment of interest and principal to the holders of the term notes should cash flows generated by the related underlying MSR collateral be insufficient.

Corporate Loan

In December 2016, the Company entered into a loan agreement with an entity that originates loans and owns the related MSRs. Under the terms of the loan agreement, the Company committed to lend \$130.0 million of which approximately \$124.2 million was drawn at March 31, 2018, and which was paid in full as of June 30, 2018. The loan was secured by certain U.S. Government, Agency and private-label MSRs, as well as other unencumbered assets owned by the borrower. The term loan was recorded on the Company’s consolidated balance sheets at the drawn amount, on which interest income was recognized on an accrual basis on the Company’s consolidated statements of operations. Commitment fees received on the undrawn amount were deferred and recognized as interest income over the remaining loan term at the time of draw. Upon repayment of the loan during the three months ended June 30, 2018, the remaining deferred commitment fees were recorded as Other Income on the Company’s consolidated statements of operations.

(d) Residential Whole Loans (including Residential Whole Loans transferred to consolidated VIEs)

Residential whole loans included in the Company’s consolidated balance sheets are primarily comprised of pools of fixed and adjustable rate residential mortgage loans acquired through consolidated trusts in secondary market transactions, with the majority at discounted purchase prices. The accounting model utilized by the Company is determined at the time each loan package is initially acquired and is generally based on the delinquency status of the majority of the underlying borrowers in the package at acquisition. The accounting model described below for purchased credit impaired loans that are held at carrying value is typically utilized by the Company for purchased

credit impaired loans where the underlying borrower has a delinquency status of less than 60 days at the acquisition date. The Company may also purchase newly or recently originated loans that are performing as of the purchase date. Such loans are typically held at carrying value, but the accounting methods for income recognition and determination and measurement of any required loan loss reserves differ to those used for purchased credit impaired loans held at carrying value. The accounting model described below for residential whole loans held at fair value is typically utilized by the Company for loans where the underlying borrower has a delinquency status of 60 days or more at the acquisition date. The accounting model initially applied is not subsequently changed.

The Company's residential whole loans pledged as collateral against repurchase agreements are included in the consolidated balance sheets with amounts pledged disclosed parenthetically. Purchases and sales of residential whole loans are recorded on the trade date, with amounts recorded reflecting management's current estimate of assets that will be acquired or disposed at the closing of the transaction. This estimate is subject to revision at the closing of the transaction, pending the outcome of due diligence performed prior to closing. Recorded amounts of residential whole loans for which the closing of the purchase transaction is yet

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to occur are not eligible to be pledged as collateral against any repurchase agreement financing until the closing of the purchase transaction. (See Notes 4, 6, 7, 14 and 15)

Residential Whole Loans at Carrying Value

Purchased Credit Impaired Loans

The Company has elected to account for these loans as credit impaired as they were acquired at discounted prices that reflect, in part, the impaired credit history of the borrower. Substantially all of these loans have previously experienced payment delinquencies and the amount owed may exceed the value of the property pledged as collateral. Consequently, these loans generally have a higher likelihood of default than newly originated mortgage loans with LTVs of 80% or less to creditworthy borrowers. The Company believes that amounts paid to acquire these loans represent fair market value at the date of acquisition. Loans considered credit impaired are initially recorded at the purchase price with no allowance for loan losses. Subsequent to acquisition, the recorded amount for these loans reflects the original investment amount, plus accretion of interest income, less principal and interest cash flows received. These loans are presented on the Company's consolidated balance sheets at carrying value, which reflects the recorded amount reduced by any allowance for loan losses established subsequent to acquisition.

Under the application of the accounting model for purchased credit impaired loans, the Company may aggregate into pools loans acquired in the same fiscal quarter that are assessed as having similar risk characteristics. For each pool established, or on an individual loans basis for loans not aggregated into pools, the Company estimates at acquisition, and periodically on at least a quarterly basis, the principal and interest cash flows expected to be collected. The difference between the cash flows expected to be collected and the carrying amount of the loans is referred to as the "accretable yield." This amount is accreted as interest income over the life of the loans using an effective interest rate (level yield) methodology. Interest income recorded each period reflects the amount of accretable yield recognized and not the coupon interest payments received on the underlying loans. The difference between contractually required principal and interest payments and the cash flows expected to be collected is referred to as the "non-accretable difference," and includes estimates of both the effect of prepayments and expected credit losses over the life of the underlying loans.

A decrease in expected cash flows in subsequent periods may indicate impairment at the pool and/or individual loan level, thus requiring the establishment of an allowance for loan losses by a charge to the provision for loan losses. The allowance for loan losses generally represents the present value of cash flows expected at acquisition, adjusted for any increases due to changes in estimated cash flows, that are subsequently no longer expected to be received at the relevant measurement date. Under the accounting model applied to credit impaired loans, a significant increase in expected cash flows in subsequent periods first reduces any previously recognized allowance for loan losses and then will result in a recalculation in the amount of accretable yield. The adjustment of accretable yield due to a significant increase in expected cash flows is accounted for prospectively as a change in estimate and results in reclassification from nonaccretable difference to accretable yield.

Other Loans at Carrying Value

The Company also has investments in loans that are not considered to be credit impaired at purchase. To date such loans have included newly or previously originated performing loans that are primarily comprised of: (i) loans to finance (or refinance) one-to-four family residential properties and are not considered to meet the definition of a "Qualified Mortgage" in accordance with guidelines adopted by the Consumer Financial Protection Bureau ("Non-QM

loans”), (ii) short-term business purpose loans collateralized by residential properties made to non-occupant borrowers who intend to rehabilitate and sell the property for a profit (“Rehabilitation loans” or “Fix and Flip loans”), (iii) loans to finance (or refinance) non-owner occupied one-to-four family residential properties that are rented to one or more tenants (“Single-family rental loans”), and (iv) previously originated loans secured by residential real estate that is generally owner occupied (“Seasoned performing loans”), (collectively “Other Loans at Carrying Value”). The Company’s Other Loans at Carrying Value are initially recorded at their purchase price. Interest income on Other Loans at Carrying Value purchased at par is accrued based on each loan’s current interest bearing balance and current interest rate, net of related servicing costs. Interest income on such loans purchased at a premium/discount to par is recorded each period based on the contractual coupon net of any premium or discount and related servicing costs, and adjusted for actual prepayment activity.

An allowance for loan losses is recorded when, based on current information and events, it is probable that the Company will be unable to collect all amounts due according to the existing contractual terms of the loan agreement. Any required loan loss allowance would typically be measured based on fair value of the collateral securing the loan and would reduce the carrying value

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of the loan with a corresponding charge to earnings. Significant judgments are required in determining any allowance for loan loss, including assumptions regarding the loan cash flows expected to be collected, the value of the underlying collateral and the ability of the Company to collect on any other forms of security, such as a personal guaranty provided either by the borrower or an affiliate of the borrower. Income recognition is suspended for loans at the earlier of the date at which payments become 90 days past due or when, in the opinion of management, a full recovery of income and principal becomes doubtful. When the ultimate collectability of the principal of an impaired loan is in doubt, all payments are applied to principal under the cost recovery method. When the ultimate collectability of the principal of an impaired loan is not in doubt, contractual interest is recorded as interest income when received, under the cash basis method until an accrual is resumed when the loan becomes contractually current and performance is demonstrated to be resumed. A loan is written off when it is no longer realizable and/or it is legally discharged.

Residential Whole Loans at Fair Value

Certain of the Company's residential whole loans are presented at fair value on its consolidated balance sheets as a result of a fair value election made at time of acquisition. For the majority of these loans, there is significant uncertainty associated with estimating the timing of and amount of cash flows that will be collected. Further, the cash flows ultimately collected may be dependent on the value of the property securing the loan. Consequently, the Company considers that accounting for these loans at fair value should result in a better reflection over time of the economic returns for the majority of these loans. The Company determines the fair value of its residential whole loans held at fair value after considering portfolio valuations obtained from a third-party who specializes in providing valuations of residential mortgage loans and trading activity observed in the market place. Subsequent changes in fair value are reported in current period earnings and presented in Net gain on residential whole loans held at fair value on the Company's consolidated statements of operations.

Cash received reflecting coupon payments on residential whole loans held at fair value is not included in Interest Income, but rather is presented in Net gain on residential whole loans held at fair value on the Company's consolidated statements of operations. Cash outflows associated with loan-related advances made by the Company on behalf of the borrower are included in the basis of the loan and are reflected in Net gain on residential whole loans held at fair value.

(e) Cash and Cash Equivalents

Cash and cash equivalents include cash on deposit with financial institutions and investments in money market funds, all of which have original maturities of three months or less. Cash and cash equivalents may also include cash pledged as collateral to the Company by its repurchase agreement counterparties as a result of reverse margin calls (i.e., margin calls made by the Company). At June 30, 2018 and December 31, 2017, the Company had cash and cash equivalents of \$54.9 million and \$449.8 million, respectively. The Company's investments in overnight money market funds, which are not bank deposits and are not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency, were \$33.7 million and \$354.0 million at June 30, 2018 and December 31, 2017, respectively. (See Notes 7 and 14)

(f) Restricted Cash

Restricted cash represents the Company's cash held by its counterparties in connection with certain of the Company's repurchase agreements that is not available to the Company for general corporate purposes. Restricted cash may be applied against amounts due to repurchase agreement counterparties, or may be returned to the Company when the



related collateral requirements are exceeded or at the maturity of the repurchase agreement. The Company had aggregate restricted cash held as collateral or otherwise in connection with its repurchase agreements of \$3.3 million and \$13.3 million at June 30, 2018 and December 31, 2017, respectively. (See Notes 5(c), 6, 7 and 14)

(g) Goodwill

At June 30, 2018 and December 31, 2017, the Company had goodwill of \$7.2 million, which represents the unamortized portion of the excess of the fair value of its common stock issued over the fair value of net assets acquired in connection with its formation in 1998. Goodwill is tested for impairment at least annually, or more frequently under certain circumstances, at the entity level. Through June 30, 2018, the Company had not recognized any impairment against its goodwill. Goodwill is included in Other assets on the Company's consolidated balance sheets.

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(h) Real Estate Owned (“REO”)

REO represents real estate acquired by the Company, including through foreclosure, deed in lieu of foreclosure, or purchased in connection with the acquisition of residential whole loans. REO acquired through foreclosure or deed in lieu of foreclosure is initially recorded at fair value less estimated selling costs. REO acquired in connection with the acquisition of residential whole loans is initially recorded at its purchase price. Subsequent to acquisition, REO is reported, at each reporting date, at the lower of the current carrying amount or fair value less estimated selling costs and for presentation purposes is included in Other assets on the Company’s consolidated balance sheets. Changes in fair value that result in an adjustment to the reported amount of an REO property that has a fair value at or below its carrying amount are reported in Other Income, net on the Company’s consolidated statements of operations. (See Note 5(b))

(i) Depreciation

Leasehold Improvements and Other Depreciable Assets

Depreciation is computed on the straight-line method over the estimated useful life of the related assets or, in the case of leasehold improvements, over the shorter of the useful life or the lease term. Furniture, fixtures, computers and related hardware have estimated useful lives ranging from five to eight years at the time of purchase.

(j) Loan Securitization and Other Debt Issuance Costs

Loan securitization related costs are costs associated with the issuance of beneficial interests by consolidated VIEs and incurred by the Company in connection with various financing transactions completed by the Company. Other debt issuance and related costs include costs incurred by the Company in connection with issuing 8% Senior Notes due 2042 (“Senior Notes”) and certain other repurchase agreement financings. These costs may include underwriting, rating agency, legal, accounting and other fees. Such costs, which reflect deferred charges, are included on the Company’s consolidated balance sheets as a direct deduction from the corresponding debt liability. These deferred charges are amortized as an adjustment to interest expense using the effective interest method. For Senior Notes and other repurchase agreement financings, such costs are amortized over the shorter of the period to the expected or stated legal maturity of the debt instruments. The Company periodically reviews the recoverability of these deferred costs and in the event an impairment charge is required, such amount will be included in Operating and Other Expense on the Company’s consolidated statements of operations.

(k) Repurchase Agreements

The Company finances the holdings of a significant portion of its residential mortgage assets with repurchase agreements. Under repurchase agreements, the Company sells securities to a lender and agrees to repurchase the same securities in the future for a price that is higher than the original sale price. The difference between the sale price that the Company receives and the repurchase price that the Company pays represents interest paid to the lender. Although legally structured as sale and repurchase transactions, the Company accounts for repurchase agreements as secured borrowings. Under its repurchase agreements, the Company pledges its securities as collateral to secure the borrowing, which is equal in value to a specified percentage of the fair value of the pledged collateral, while the Company retains beneficial ownership of the pledged collateral. At the maturity of a repurchase financing, unless the repurchase financing is renewed with the same counterparty, the Company is required to repay the loan including any accrued interest and concurrently receives back its pledged collateral from the lender. With the consent of the lender,

the Company may renew a repurchase financing at the then prevailing financing terms. Margin calls, whereby a lender requires that the Company pledge additional securities or cash as collateral to secure borrowings under its repurchase financing with such lender, are routinely experienced by the Company when the value of the MBS pledged as collateral declines as a result of principal amortization and prepayments or due to changes in market interest rates, spreads or other market conditions. The Company also may make margin calls on counterparties when collateral values increase.

The Company's repurchase financings typically have terms ranging from one month to six months at inception, but may also have longer or shorter terms. Should a counterparty decide not to renew a repurchase financing at maturity, the Company must either refinance elsewhere or be in a position to satisfy the obligation. If, during the term of a repurchase financing, a lender should default on its obligation, the Company might experience difficulty recovering its pledged assets which could result in an unsecured claim against the lender for the difference between the amount loaned to the Company plus interest due to the counterparty and the fair value of the collateral pledged by the Company to such lender, including accrued interest receivable or such collateral. (See Notes 6, 7 and 14)

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In addition to the repurchase agreement financing arrangements discussed above, as part of its financing strategy for Non-Agency MBS, the Company has entered into contemporaneous repurchase and reverse repurchase agreements with a single counterparty. Under a typical reverse repurchase agreement, the Company buys securities from a borrower for cash and agrees to sell the same securities in the future for a price that is higher than the original purchase price. The difference between the purchase price the Company originally paid and the sale price represents interest received from the borrower. In contrast, the contemporaneous repurchase and reverse repurchase transactions effectively resulted in the Company pledging Non-Agency MBS as collateral to the counterparty in connection with the repurchase agreement financing and obtaining U.S. Treasury securities as collateral from the same counterparty in connection with the reverse repurchase agreement. No net cash was exchanged between the Company and counterparty at the inception of the transactions. Securities obtained and pledged as collateral are recorded in Other assets on the Company's consolidated balance sheets. Interest income is recorded on the reverse repurchase agreement and interest expense is recorded on the repurchase agreement on an accrual basis. Both the Company and the counterparty have the right to make daily margin calls based on changes in the value of the collateral obtained and/or pledged. The Company's liability to the counterparty in connection with this financing arrangement is recorded in Other liabilities on the Company's consolidated balance sheets and disclosed as "Obligation to return securities obtained as collateral, at fair value." (See Note 5(a))

(l) Equity-Based Compensation

Compensation expense for equity-based awards that are subject to vesting conditions, is recognized ratably over the vesting period of such awards, based upon the fair value of such awards at the grant date. For certain awards granted prior to January 1, 2017, compensation expense recognized included the impact of estimated forfeitures, with any changes in estimated forfeiture rates accounted for as a change in estimate. Upon adoption of new accounting guidance that was effective for the Company on January 1, 2017, the Company made a policy election to account for forfeitures as they occur.

From 2011 through 2013, the Company granted certain restricted stock units ("RSUs") that vested annually over a one or three-year period, provided that certain criteria were met, which were based on a formula tied to the Company's achievement of average total stockholder return during that three-year period. Starting in 2014, the Company has made annual grants of RSUs certain of which cliff vest after a three-year period and others of which cliff vest after a three-year period, subject to the achievement of certain performance criteria based on a formula tied to the Company's achievement of average total stockholder return during that three-year period. The features in these awards related to the attainment of total stockholder return over a specified period constitute a "market condition" which impacts the amount of compensation expense recognized for these awards. Specifically, the uncertainty regarding the achievement of the market condition was reflected in the grant date fair valuation of the RSUs, which is recognized as compensation expense over the relevant vesting period. The amount of compensation expense recognized is not dependent on whether the market condition was or will be achieved.

The Company makes dividend equivalent payments in connection with certain of its equity-based awards. A dividend equivalent is a right to receive a distribution equal to the dividend distributions that would be paid on a share of the Company's common stock. Dividend equivalents may be granted as a separate instrument or may be a right associated with the grant of another award (e.g., an RSU) under the Company's Equity Compensation Plan (the "Equity Plan"), and they are paid in cash or other consideration at such times and in accordance with such rules, terms and conditions, as the Compensation Committee of the Company's Board of Directors (the "Compensation Committee") may determine in its discretion. Payments pursuant to dividend equivalents are generally charged to Stockholders' Equity

to the extent that the attached equity awards are expected to vest. Compensation expense is recognized for payments made for dividend equivalents to the extent that the attached equity awards do not or are not expected to vest and grantees are not required to return payments of dividends or dividend equivalents to the Company. (See Notes 2(m) and 13)

(m) Earnings per Common Share (“EPS”)

Basic EPS is computed using the two-class method, which includes the weighted-average number of shares of common stock outstanding during the period and an estimate of other securities that participate in dividends, such as the Company’s unvested restricted stock and RSUs that have non-forfeitable rights to dividends and dividend equivalents attached to/associated with RSUs and vested stock options to arrive at total common equivalent shares. In applying the two-class method, earnings are allocated to both shares of common stock and estimated securities that participate in dividends based on their respective weighted-average shares outstanding for the period. For the diluted EPS calculation, common equivalent shares are further adjusted for the effect of dilutive unexercised stock options and RSUs outstanding that are unvested and have dividends that are subject to forfeiture using the treasury stock method. Under the treasury stock method, common equivalent shares are calculated assuming that all

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dilutive common stock equivalents are exercised and the proceeds, along with future compensation expenses associated with such instruments, are used to repurchase shares of the Company's outstanding common stock at the average market price during the reported period. (See Note 12)

(n) Comprehensive Income/(Loss)

The Company's comprehensive income/(loss) available to common stock and participating securities includes net income, the change in net unrealized gains/(losses) on its AFS securities and derivative hedging instruments, (to the extent that such changes are not recorded in earnings), adjusted by realized net gains/(losses) reclassified out of AOCI for sold AFS securities and is reduced by dividends declared on the Company's preferred stock and issuance costs of redeemed preferred stock.

(o) U.S. Federal Income Taxes

The Company has elected to be taxed as a REIT under the provisions of the Internal Revenue Code of 1986, as amended, (the "Code") and the corresponding provisions of state law. The Company expects to operate in a manner that will enable it to satisfy the various requirements to maintain its status as a REIT for federal income tax purposes. In order to maintain its status as a REIT, the Company must, among other things, distribute at least 90% of its REIT taxable income (excluding net long-term capital gains) to stockholders in the timeframe permitted by the Code. As long as the Company maintains its status as a REIT, the Company will not be subject to regular federal income tax to the extent that it distributes 100% of its REIT taxable income (including net long-term capital gains) to its stockholders within the permitted timeframe. Should this not occur, the Company would be subject to federal taxes at prevailing corporate tax rates on the difference between its REIT taxable income and the amounts deemed to be distributed for that tax year. As the Company's objective is to distribute 100% of its REIT taxable income to its stockholders within the permitted timeframe, no provision for current or deferred income taxes has been made in the accompanying consolidated financial statements. Should the Company incur a liability for corporate income tax, such amounts would be recorded as REIT income tax expense on the Company's consolidated statements of operations. Furthermore, if the Company fails to distribute during each calendar year, or by the end of January following the calendar year in the case of distributions with declaration and record dates falling in the last three months of the calendar year, at least the sum of (i) 85% its REIT ordinary income for such year, (ii) 95% of its REIT capital gain income for such year, and (iii) any undistributed taxable income from prior periods, the Company would be subject to a 4% nondeductible excise tax on the excess of the required distribution over the amounts actually distributed. To the extent that the Company incurs interest, penalties or related excise taxes in connection with its tax obligations, including as a result of its assessment of uncertain tax positions, such amounts will be included in Operating and Other Expense on the Company's consolidated statements of operations.

In addition, the Company has elected to treat certain of its subsidiaries as a 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. Generally, a domestic TRS is subject to U.S. federal, state and local corporate income taxes. Since a portion of the Company's business may be conducted through one or more TRS, its income earned by TRS may be subject to corporate income taxation. To maintain the Company's REIT election, no more than 20% of the value of a REIT's assets at the end of each calendar quarter may consist of stock or securities in TRS. For purposes of the determination of U.S. federal and state income taxes, the Company's subsidiaries that elected to be treated as a TRS record current or deferred income taxes based on differences (both permanent and timing) between the determination of their taxable income and net income under GAAP. No deferred tax benefit was recorded by the Company for the six months ended June 30, 2018 and 2017, as a valuation allowance for the full amount of the

associated deferred tax asset was recognized as its recovery is not considered more likely than not.

Based on its analysis of any potential uncertain tax positions, the Company concluded that it does not have any material uncertain tax positions that meet the relevant recognition or measurement criteria as of June 30, 2018, December 31, 2017, or June 30, 2017. The Company filed its 2016 tax return prior to October 16, 2017. The Company's tax returns for tax years 2014 through 2016 are open to examination.

(p) Derivative Financial Instruments

The Company may use a variety of derivative instruments to economically hedge a portion of its exposure to market risks, including interest rate risk and prepayment risk. The objective of the Company's risk management strategy is to reduce fluctuations in net book value over a range of interest rate scenarios. In particular, the Company attempts to mitigate the risk of the cost of its variable rate liabilities increasing during a period of rising interest rates. The Company's derivative instruments are currently comprised of Swaps, which are designated as cash flow hedges against the interest rate risk associated with its borrowings.

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Swaps

The Company documents its risk-management policies, including objectives and strategies, as they relate to its hedging activities and the relationship between the hedging instrument and the hedged liability for all Swaps designated as hedging transactions. The Company assesses, both at inception of a hedge and on a quarterly basis thereafter, whether or not the hedge is “highly effective.”

Swaps are carried on the Company’s consolidated balance sheets at fair value, in Other assets, if their fair value is positive, or in Other liabilities, if their fair value is negative. Beginning in January 2017, variation margin payments on the Company’s Swaps that have been novated to a clearing house are treated as a legal settlement of the exposure under the Swap contract. Previously such payments were treated as collateral pledged against the exposure under the Swap contract. The effect of this change is to reduce what would have otherwise been reported as fair value of the Swap. All of the Company’s Swaps have been novated to a central clearing house. Changes in the fair value of the Company’s Swaps designated in hedging transactions are recorded in OCI provided that the hedge remains effective. Changes in fair value for any ineffective amount of a Swap are recognized in earnings. The Company has not recognized any change in the value of its existing Swaps designated as hedges through earnings as a result of hedge ineffectiveness.

The Company discontinues hedge accounting on a prospective basis and recognizes changes in fair value through earnings when: (i) it is determined that the derivative is no longer effective in offsetting cash flows of a hedged item (including forecasted transactions); (ii) it is no longer probable that the forecasted transaction will occur; or (iii) it is determined that designating the derivative as a hedge is no longer appropriate. (See Notes 5(c), 7 and 14)

Changes in the fair value of the Company’s Swaps not designated in hedging transactions (if any) are recorded in Other income, net on the Company’s consolidated statement of operations.

(q) Fair Value Measurements and the Fair Value Option for Financial Assets and Financial Liabilities

The Company’s presentation of fair value for its financial assets and liabilities is determined within a framework that stipulates that the fair value of a financial asset or liability is an exchange price in an orderly transaction between market participants to sell the asset or transfer the liability in the market in which the reporting entity would transact for the asset or liability, that is, the principal or most advantageous market for the asset or liability. The transaction to sell the asset or transfer the liability is a hypothetical transaction at the measurement date, considered from the perspective of a market participant that holds the asset or owes the liability. This definition of fair value focuses on exit price and prioritizes the use of market-based inputs over entity-specific inputs when determining fair value. In addition, the framework for measuring fair value establishes a three-level hierarchy for fair value measurements based upon the observability of inputs to the valuation of an asset or liability as of the measurement date.

In addition to the financial instruments that it is required to report at fair value, the Company has elected the fair value option for certain of its residential whole loans and CRT securities at time of acquisition. Subsequent changes in the fair value of these loans and CRT securities are reported in Net gain on residential whole loans held at fair value and Other income, net respectively on the Company’s consolidated statements of operations. A decision to elect the fair value option for an eligible financial instrument, which may be made on an instrument by instrument basis, is irrevocable. (See Notes 2(d), 4 and 14)



(r) Variable Interest Entities

An entity is referred to as a VIE if it meets at least one of the following criteria: (i) the entity has equity that is insufficient to permit the entity to finance its activities without additional subordinated financial support of other parties; or (ii) as a group, the holders of the equity investment at risk lack (a) the power to direct the activities of an entity that most significantly impact the entity's economic performance; (b) the obligation to absorb the expected losses; or (c) the right to receive the expected residual returns; or (iii) have disproportional voting rights and the entity's activities are conducted on behalf of the investor that has disproportionately few voting rights.

The Company consolidates a VIE when it has both the power to direct the activities that most significantly impact the economic performance of the VIE and a right to receive benefits or absorb losses of the entity that could be potentially significant to the VIE.

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The Company is required to reconsider its evaluation of whether to consolidate a VIE each reporting period, based upon changes in the facts and circumstances pertaining to the VIE.

The Company has entered into several financing transactions which resulted in the Company consolidating the VIEs that were created to facilitate these transactions. In determining the accounting treatment to be applied to these transactions, the Company concluded that the entities used to facilitate these transactions were VIEs and that they should be consolidated. If the Company had determined that consolidation was not required, it would have then assessed whether the transfers of the underlying assets would qualify as sale or should be accounted for as secured financings under GAAP. (See Note 15)

The Company also includes on its consolidated balance sheets certain financial assets and liabilities that are acquired/issued by trusts and/or other special purpose entities that have been evaluated as being required to be consolidated by the Company under the applicable accounting guidance.

(s) Offering Costs Related to Issuance and Redemption of Preferred Stock

Offering costs related to issuance of preferred stock are recorded as a reduction in Additional paid-in capital, a component of Stockholders' Equity, at the time such preferred stock is issued. On redemption of preferred stock, any excess of the fair value of the consideration transferred to the holders of the preferred stock over the carrying amount of the preferred stock in the Company's consolidated balance sheets is included in the determination of Net Income Available to Common Stock and Participating Securities in the calculation of EPS.

(t) New Accounting Standards and Interpretations

Accounting Standards Adopted in 2018

Compensation - Stock Compensation - Scope of Modification Accounting

In May 2017, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2017-09, Scope of Modification Accounting ("ASU 2017-09"). The amendments in ASU 2017-09 provide guidance about which changes to the terms or conditions of a share-based payment award require an entity to apply modification accounting. Pursuant to this ASU, an entity should account for the effects of a modification unless all of the following are met: (1) the fair value (or calculated value or intrinsic value, if such an alternative measurement method is used) of the modified award is the same as the fair value (or calculated value or intrinsic value, if such an alternative measurement method is used) of the original award immediately before the original award is modified; (2) the vesting conditions of the modified award are the same as the vesting conditions of the original award immediately before the original award is modified; and (3) the classification of the modified award as an equity instrument or a liability instrument is the same as the classification of the original award immediately before the original award date is modified. The Company adopted ASU 2017-09 on January 1, 2018 and its adoption did not have an impact on its financial position or financial statement disclosures.

Statement of Cash Flows - Restricted Cash

In November 2016, the FASB issued ASU 2016-18, Restricted Cash ("ASU 2016-18"). ASU 2016-18 clarifies how entities should present restricted cash and restricted cash equivalents in the statement of cash flows with the objective of reducing the existing diversity in practice. The amendments in ASU 2016-18 require restricted cash and restricted

cash equivalents to be included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the statement of cash flows. The Company adopted ASU 2016-18 on January 1, 2018 and its adoption did not have a significant impact on its financial position or financial statement disclosures.

#### Statement of Cash Flows - Classification of Certain Cash Receipts and Cash Payments

In August 2016, the FASB issued ASU 2016-15, Classification of Certain Cash Receipts and Cash Payments (“ASU 2016-15”). The amendments in ASU 2016-15 provide guidance for eight specific cash flow classification issues, certain cash receipts and cash payments on the statement of cash flows with the objective of reducing the existing diversity in practice. The Company adopted ASU 2016-15 on January 1, 2018 and its adoption did not have a significant impact on its financial position or financial statement disclosures.

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Financial Instruments - Overall - Recognition and Measurement of Financial Assets and Financial Liabilities

In January 2016, the FASB issued ASU 2016-01, Recognition and Measurement of Financial Assets and Financial Liabilities (“ASU 2016-01”). The amendments in this ASU affect all entities that hold financial assets or owe financial liabilities, and address certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. The classification and measurement guidance of investments in debt securities and loans are not affected by the amendments in this ASU. ASU 2016-01 was effective for the Company for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2017. The Company’s adoption of this ASU on January 1, 2018 did not have a significant impact on the Company’s financial position or financial statement disclosures as the classification and measurement of its investments in debt securities and loans were not affected by the amendments in this ASU.

Revenue from Contracts with Customers

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers (“ASU 2014-09”). The ASU requires an entity to recognize revenue in an amount that reflects the consideration to which it expects to be entitled for the transfer of promised goods or services to customers. ASU 2014-09 replaced most existing revenue recognition guidance in GAAP when it became effective. The Company adopted this ASU on January 1, 2018 and its adoption did not have a material impact on the Company’s financial position or financial statement disclosures as the majority of the Company’s revenues are generated by financial instruments that are explicitly scoped out of this ASU. On adoption of the new standard on January 1, 2018, the Company recorded a transition adjustment, under the modified retrospective approach, of approximately \$295,000 to the opening balance of retained earnings in order to reflect the recognition of a gain on sale of REO that was previously deferred under the prior accounting guidance.

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3. MBS, CRT Securities and MSR Related Assets

Agency and Non-Agency MBS

The Company's MBS are comprised of Agency MBS and Non-Agency MBS which include MBS issued prior to 2008 ("Legacy Non-Agency MBS"). These MBS are secured by: (i) hybrid mortgages ("Hybrids"), which have interest rates that are fixed for a specified period of time and, thereafter, generally adjust annually to an increment over a specified interest rate index; (ii) adjustable-rate mortgages ("ARMs"), which have interest rates that reset annually or more frequently (collectively, "ARM-MBS"); and (iii) 15 and 30 year fixed-rate mortgages for Agency MBS and, for Non-Agency MBS, 30-year and longer-term fixed rate mortgages. In addition, the Company's MBS are also comprised of MBS backed by securitized re-performing/non-performing loans ("RPL/NPL MBS"), where the cash flows of the bond may not reflect the contractual cash flows of the underlying collateral. The Company's RPL/NPL MBS are generally structured with a contractual coupon step-up feature where the coupon increases up to 300 basis points at 36 months from issuance or sooner. The Company pledges a significant portion of its MBS as collateral against its borrowings under repurchase agreements and Swaps. (See Note 7)

**Agency MBS:** Agency MBS are guaranteed as to principal and/or interest by a federally chartered corporation, such as Fannie Mae or Freddie Mac, or an agency of the U.S. Government, such as Ginnie Mae. The payment of principal and/or interest on Ginnie Mae MBS is explicitly backed by the full faith and credit of the U.S. Government. Since the third quarter of 2008, Fannie Mae and Freddie Mac have been under the conservatorship of the Federal Housing Finance Agency, which significantly strengthened the backing for these government-sponsored entities.

**Non-Agency MBS:** The Company's Non-Agency MBS are primarily secured by pools of residential mortgages, which are not guaranteed by an agency of the U.S. Government or any federally chartered corporation. Credit risk associated with Non-Agency MBS is regularly assessed as new information regarding the underlying collateral becomes available and based on updated estimates of cash flows generated by the underlying collateral.

CRT Securities

CRT securities are debt obligations issued by Fannie Mae and Freddie Mac. The payments of principal and interest on the CRT securities are paid by Fannie Mae or Freddie Mac, as the case may be, on a monthly basis, and are dependent on the performance of loans in a reference pool of Agency MBS securitized by the issuing entity. As an investor in a CRT security, the Company may incur a loss if losses on the mortgage loans in the reference pool exceed the credit enhancement on the underlying CRT security owned by the Company. The Company assesses the credit risk associated with CRT securities by assessing the current and expected future performance of the associated reference pool. The Company pledges a portion of its CRT securities as collateral against its borrowings under repurchase agreements. (See Note 7)

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The following tables present certain information about the Company's MBS and CRT securities at June 30, 2018 and December 31, 2017:

June 30, 2018

(In Thousands)	Principal/ Current Face	Purchase Premiums	Accretible Purchase Discounts	Discount Designated as Credit Reserve and OTTI (1)	Amortized Cost (2)	Fair Value	Gross Unrealized Gains	Gross Unrealized Losses	Net Unrealized Gain/(Loss)
Agency MBS:									
Fannie Mae	\$1,874,754	\$71,870	\$(34)	\$—	\$1,946,590	\$1,928,719	\$17,695	\$(35,566)	\$(17,871)
Freddie Mac	428,102	17,080	—	—	446,360	428,465	1,100	(18,995)	(17,895)
Ginnie Mae	5,557	101	—	—	5,658	5,713	56	(1)	55
Total Agency MBS	2,308,413	89,051	(34)	—	2,398,608	2,362,897	18,851	(54,562)	(35,711)
Non-Agency MBS:									
Expected to Recover Par (3)(4)	1,122,973	43	(27,359)	—	1,095,657	1,123,299	28,736	(1,094)	27,642
Expected to Recover Less than Par (3)	2,298,626	—	(174,889)	(553,596)	1,570,141	2,119,668	549,719	(192)	549,527
Total Non-Agency MBS (5)	3,421,599	43	(202,248)	(553,596)	2,665,798	3,242,967	578,455	(1,286)	577,169
Total MBS	5,730,012	89,094	(202,282)	(553,596)	5,064,406	5,605,864	597,306	(55,848)	541,458
CRT securities (6)	520,688	9,825	(1,830)	—	528,683	571,955	43,365	(93)	43,272
Total MBS and CRT securities	\$6,250,700	\$98,919	\$(204,112)	\$(553,596)	\$5,593,089	\$6,177,819	\$640,671	\$(55,941)	\$584,730

December 31, 2017

(In Thousands)	Principal/ Current Face	Purchase Premiums	Accretible Purchase Discounts	Discount Designated as Credit Reserve and OTTI (1)	Amortized Cost (2)	Fair Value	Gross Unrealized Gains	Gross Unrealized Losses	Net Unrealized Gain/(Loss)
Agency MBS:									
Fannie Mae	\$2,170,974	\$82,271	\$(40)	\$—	\$2,253,205	\$2,246,600	\$21,736	\$(28,341)	\$(6,605)
Freddie Mac	561,346	21,683	—	—	584,920	571,748	1,624	(14,796)	(13,172)
Ginnie Mae	6,142	112	—	—	6,254	6,333	79	—	79
Total Agency MBS	2,738,462	104,066	(40)	—	2,844,379	2,824,681	23,439	(43,137)	(19,698)

Non-Agency MBS:									
Expected to Recover Par (3)(4)	1,128,808	50	(22,737)	) —	1,106,121	1,132,205	26,518	(434)	) 26,084
Expected to Recover Less than Par (3)	2,589,935	—	(192,588)	) (593,227)	1,804,120	2,401,761	597,660	(19)	) 597,641
Total Non-Agency MBS (5)	3,718,743	50	(215,325)	) (593,227)	2,910,241	3,533,966	624,178	(453)	) 623,725
Total MBS	6,457,205	104,116	(215,365)	) (593,227)	5,754,620	6,358,647	647,617	(43,590)	) 604,027
CRT securities (6)	602,799	8,887	(3,550)	) —	608,136	664,403	56,290	(23)	) 56,267
Total MBS and CRT securities	\$7,060,004	\$113,003	\$(218,915)	\$(593,227)	\$6,362,756	\$7,023,050	\$703,907	\$(43,613)	\$660,294

(1) Discount designated as Credit Reserve and amounts related to OTTI are generally not expected to be accreted into interest income. Amounts disclosed at June 30, 2018 reflect Credit Reserve of \$540.7 million and OTTI of \$12.9 million. Amounts disclosed at December 31, 2017 reflect Credit Reserve of \$579.0 million and OTTI of \$14.2 million.

(2) Includes principal payments receivable of \$1.2 million and \$1.9 million at June 30, 2018 and December 31, 2017, respectively, which are not included in the Principal/Current Face.

(3) Based on management's current estimates of future principal cash flows expected to be received.

(4) Includes RPL/NPL MBS, which at June 30, 2018 had a \$909.3 million Principal/Current face, \$907.5 million amortized cost and \$907.9 million fair value. At December 31, 2017, RPL/NPL MBS had a \$922.0 million Principal/Current face, \$920.1 million amortized cost and \$923.1 million fair value.

(5) At both June 30, 2018 and December 31, 2017, the Company expected to recover approximately 84% of the then-current face amount of Non-Agency MBS, respectively.

(6) Amounts disclosed at June 30, 2018 includes CRT securities with a fair value of \$522.1 million for which the fair value option has been elected. Such securities had gross unrealized gains of approximately \$37.3 million and gross unrealized losses of approximately \$92,500 at June 30, 2018. Amounts disclosed at December 31, 2017 includes CRT securities with a fair value of \$528.9 million for which the fair value option has been elected. Such securities had gross unrealized gains of approximately \$40.5 million and gross unrealized losses of approximately \$23,000 at December 31, 2017.

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## Sales of MBS and CRT Securities

During the three and six months ended June 30, 2018, the Company sold certain Agency MBS for \$75.3 million realizing gross losses of \$3.8 million. The Company also sold certain CRT securities during the three and six months ended June 30, 2018 for \$104.0 million, realizing gross gains of \$11.2 million. In addition, during the six months ended June 30, 2018, the Company sold certain Non-Agency MBS for \$19.4 million, realizing gross gains of \$8.8 million. During the three and six months ended June 30, 2017, the Company sold certain Non-Agency MBS for \$16.9 million and \$38.5 million, realizing gross gains of \$5.9 million and \$15.6 million, respectively. The Company has no continuing involvement with any of the sold MBS.

## Unrealized Losses on MBS and CRT Securities

The following table presents information about the Company's MBS and CRT securities that were in an unrealized loss position at June 30, 2018:

## Unrealized Loss Position For:

(Dollars in Thousands)	Less than 12 Months			12 Months or more			Total	
	Fair Value	Unrealized Losses	Number of Securities	Fair Value	Unrealized Losses	Number of Securities	Fair Value	Unrealized Losses
Agency MBS:								
Fannie Mae	\$304,882	\$ 3,195	97	\$888,232	\$ 32,371	237	\$1,193,114	\$ 35,566
Freddie Mac	88,740	1,232	40	300,183	17,763	96	388,923	18,995
Ginnie Mae	672	1	3	—	—	—	672	1
Total Agency MBS	394,294	4,428	140	1,188,415	50,134	333	1,582,709	54,562
Non-Agency MBS:								
Expected to Recover Par (1)	278,307	971	14	8,174	123	8	286,481	1,094
Expected to Recover Less than Par (1)	15,728	192	4	—	—	—	15,728	192
Total Non-Agency MBS	294,035	1,163	18	8,174	123	8	302,209	1,286
Total MBS	688,329	5,591	158	1,196,589	50,257	341	1,884,918	55,848
CRT securities (2)	18,064	93	5	—	—	—	18,064	93
Total MBS and CRT securities	\$706,393	\$ 5,684	163	\$1,196,589	\$ 50,257	341	\$1,902,982	\$ 55,941

(1) Based on management's current estimates of future principal cash flows expected to be received.

(2) Amounts disclosed at June 30, 2018 represent CRT securities on which the fair value option has been elected.

At June 30, 2018, the Company did not intend to sell any of its investments that were in an unrealized loss position, and it is "more likely than not" that the Company will not be required to sell these securities before recovery of their amortized cost basis, which may be at their maturity.

Gross unrealized losses on the Company's Agency MBS were \$54.6 million at June 30, 2018. Agency MBS are issued by Government Sponsored Entities ("GSEs") and enjoy either the implicit or explicit backing of the full faith and credit of the U.S. Government. While the Company's Agency MBS are not rated by any rating agency, they are currently perceived by market participants to be of high credit quality, with risk of default limited to the unlikely event that the U.S. Government would not continue to support the GSEs. Given the credit quality inherent in Agency MBS, the



Company does not consider any of the current impairments on its Agency MBS to be credit related. In assessing 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 its maturity, the Company considers for each impaired security, 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 June 30, 2018 any unrealized losses on its Agency MBS were temporary.

Gross unrealized losses on the Company's Non-Agency MBS were \$1.3 million at June 30, 2018. 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 are rather a reflection of current market yields and/or marketplace bid-ask spreads. The Company has reviewed its Non-Agency MBS that are in an unrealized loss position to identify those securities with losses that

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are other-than-temporary based on an assessment of changes in expected cash flows for such securities, which considers recent bond performance and, where possible, expected future performance of the underlying collateral.

The Company did not recognize any credit-related OTTI losses through earnings related to its Non-Agency MBS during the three and six months ended June 30, 2018. The Company recognized credit-related OTTI losses through earnings related to its Non-Agency MBS of \$618,000 and \$1.0 million during the three and six months ended June 30, 2017.

Non-Agency MBS on which OTTI is recognized have experienced, or are expected to experience, credit-related adverse cash flow changes. The Company's estimate of cash flows for these Non-Agency MBS is based on its review of the underlying mortgage loans securing these MBS. The Company considers information available about the structure of the securitization, including structural credit enhancement, if any, and the past and expected future performance of underlying mortgage loans, including timing of expected future cash flows, prepayment rates, default rates, loss severities, delinquency rates, percentage of non-performing loans, year of origination, LTVs, geographic concentrations, as well as Rating Agency reports, general market assessments, and dialogue with market participants. Changes in the Company's evaluation of each of these factors impacts the cash flows expected to be collected at the OTTI assessment date. For Non-Agency MBS purchased at a discount to par that were assessed for and had no OTTI recorded this period, such cash flow estimates indicated that the amount of expected losses decreased compared to the previous OTTI assessment date. These positive cash flow changes are primarily driven by recent improvements in LTVs due to loan amortization and home price appreciation, which, in turn, positively impacts the Company's estimates of default rates and loss severities for the underlying collateral. In addition, voluntary prepayments (i.e., loans that prepay in full with no loss) have generally trended higher relative to the Company's assumptions for these MBS which also positively impacts the Company's estimate of expected loss. Overall, the combination of higher voluntary prepayments and lower LTVs supports the Company's assessment that such MBS are not other-than-temporarily impaired.

The following table presents the composition of OTTI charges recorded by the Company for the three and six months ended June 30, 2018 and 2017:

	Three Months Ended June 30, 2018	Six Months Ended June 30, 2017
(In Thousands)		
Total OTTI losses	\$—	\$—(63 )
OTTI reclassified from OCI	—(618 )	—(969 )
OTTI recognized in earnings	\$—(618)	\$—(1,032)

The following table presents a roll-forward of the credit loss component of OTTI on the Company's Non-Agency MBS for which a non-credit component of OTTI was previously recognized in OCI. Changes in the credit loss component of OTTI are presented based upon whether the current period is the first time OTTI was recorded on a security or a subsequent OTTI charge was recorded.

	Three Months Ended	Six Months Ended
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	June	June
(In Thousands)	30,	30,
	2018	2018
Credit loss component of OTTI at beginning of period	\$38,337	\$38,337
Additions for credit related OTTI not previously recognized	—	—
Subsequent additional credit related OTTI recorded	—	—
Credit loss component of OTTI at end of period	\$38,337	\$38,337

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## Purchase Discounts on Non-Agency MBS

The following tables present the changes in the components of the Company's purchase discount on its Non-Agency MBS between purchase discount designated as Credit Reserve and OTTI and accretable purchase discount for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended June 30, 2018		Three Months Ended June 30, 2017	
	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)
Balance at beginning of period	\$(572,580)	\$(199,659)	\$(653,337)	\$(269,724)
Impact of RMBS Issuer Settlement (2)	—	(12,089 )	—	—
Accretion of discount	—	17,530	—	20,223
Realized credit losses	10,954	—	13,139	—
Purchases	—	—	(484 )	(1,520 )
Sales	—	—	5,037	2,819
Net impairment losses recognized in earnings	—	—	(618 )	—
Transfers/release of credit reserve	8,030	(8,030 )	9,765	(9,765 )
Balance at end of period	\$(553,596)	\$(202,248)	\$(626,498)	\$(257,967)

(In Thousands)	Six Months Ended June 30, 2018		Six Months Ended June 30, 2017	
	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)
Balance at beginning of period	\$(593,227)	\$(215,325)	\$(694,241)	\$(278,191)
Impact of RMBS Issuer Settlement (2)	—	(12,089 )	—	—
Accretion of discount	—	34,746	—	41,840
Realized credit losses	19,401	—	25,463	—
Purchases	(535 )	488	(484 )	(1,520 )
Sales	5,592	5,105	24,778	(1,078 )
Net impairment losses recognized in earnings	—	—	(1,032 )	—
Transfers/release of credit reserve	15,173	(15,173 )	19,018	(19,018 )
Balance at end of period	\$(553,596)	\$(202,248)	\$(626,498)	\$(257,967)

(1) Together with coupon interest, accretable purchase discount is recognized as interest income over the life of the security.

(2) Includes the impact of approximately \$12.1 million of cash proceeds (a one-time payment) received by the Company during the three months ended June 30, 2018 in connection with the settlement of litigation related to

certain residential mortgage backed securitization trusts that were sponsored by JP Morgan Chase & Co. and affiliated entities.

#### MSR Related Assets

##### (a) Term Notes Backed by MSR Related Collateral

At June 30, 2018 and December 31, 2017, the Company had \$381.4 million and \$381.8 million, respectively, of term notes issued by SPVs that have acquired rights to receive cash flows representing the servicing fees and/or excess servicing spread associated with certain MSRs. Payment of principal and interest on these term notes is considered to be largely dependent on cash flows generated by the underlying MSRs, as this impacts the cash flows available to the SPV that issued the term notes.

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At June 30, 2018, these term notes had an amortized cost of \$380.4 million, gross unrealized gains of \$1.0 million, a weighted average yield of 5.56% and a weighted average term to maturity of 4.1 years. At December 31, 2017, the term notes had an amortized cost of \$381.0 million, gross unrealized gains of \$804,000, a weighted average yield of 5.80% and a weighted average term to maturity of 3.4 years.

## (b) Corporate Loan

In December 2016, the Company entered into a loan agreement with an entity that originates loans and owns the related MSR. The loan was secured by certain U.S. Government, Agency and private-label MSRs, as well as other unencumbered assets owned by the borrower. Under the terms of the loan agreement, the Company committed to lend \$130.0 million of which approximately \$124.2 million was drawn at March 31, 2018, and which was paid in full as of June 30, 2018. For the three and six months ended June 30, 2018, the Company recognized interest income of \$1.2 million and \$3.7 million including discount accretion and commitment fee income of \$1.1 million and \$1.2 million, respectively. In addition, the Company recorded \$136,000 of Other Income consisting of deferred commitment fees recognized upon repayment of the loan during the three months ended June 30, 2018. For the three and six months ended June 30, 2017, the Company recognized interest income of approximately \$2.0 million and \$3.7 million including discount accretion and commitment fee income of approximately \$73,000 and \$135,000, respectively.

## Impact of AFS Securities on AOCI

The following table presents the impact of the Company's AFS securities on its AOCI for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended		Six Months Ended	
	June 30, 2018	2017	June 30, 2018	2017
AOCI from AFS securities:				
Unrealized gain on AFS securities at beginning of period	\$574,485	\$629,487	\$620,648	\$620,403
Unrealized loss on Agency MBS, net	(9,641 )	(11,157 )	(18,331 )	(19,209 )
Unrealized (loss)/gain on Non-Agency MBS, net	(11,115 )	56,167	(38,308 )	83,663
Reclassification adjustment for MBS sales included in net income	(5,178 )	(5,656 )	(15,458 )	(15,602 )
Reclassification adjustment for OTTI included in net income	—	(618 )	—	(1,032 )
Change in AOCI from AFS securities	(25,934 )	38,736	(72,097 )	47,820
Balance at end of period	\$548,551	\$668,223	\$548,551	\$668,223

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## Interest Income on MBS, CRT Securities and MSR Related Assets

The following table presents the components of interest income on the Company's MBS, CRT securities and MSR related assets for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
<b>Agency MBS</b>				
Coupon interest	\$20,040	\$24,904	\$40,997	\$51,117
Effective yield adjustment (1)	(6,870 )	(8,317 )	(12,534 )	(16,636 )
Interest income	\$13,170	\$16,587	\$28,463	\$34,481
<b>Legacy Non-Agency MBS</b>				
Coupon interest	\$27,931	\$32,444	\$56,765	\$67,108
Effective yield adjustment (2)	17,462	19,586	34,664	41,028
Interest income	\$45,393	\$52,030	\$91,429	\$108,136
<b>RPL/NPL MBS</b>				
Coupon interest	\$9,588	\$17,601	\$19,641	\$40,529
Effective yield adjustment (1)	62	638	75	812
Interest income	\$9,650	\$18,239	\$19,716	\$41,341
<b>CRT securities</b>				
Coupon interest	\$7,854	\$6,586	\$16,227	\$11,843
Effective yield adjustment (2)	841	1,260	1,964	2,379
Interest income	\$8,695	\$7,846	\$18,191	\$14,222
<b>MSR related assets</b>				
Coupon interest	\$5,081	\$5,832	\$12,598	\$10,505
Effective yield adjustment (1)	1,138	73	1,244	134
Interest income	\$6,219	\$5,905	\$13,842	\$10,639

(1) Includes amortization of premium paid net of accretion of purchase discount. For Agency MBS, RPL/NPL MBS and the corporate loan secured by MSRs, interest income is recorded at an effective yield, which reflects net premium amortization/accretion based on actual prepayment activity.

(2) The effective yield adjustment is the difference between the net income calculated using the net yield, which is based on management's estimates of the amount and timing of future cash flows, less the current coupon yield.

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## 4. Residential Whole Loans

Included on the Company's consolidated balance sheets at June 30, 2018 and December 31, 2017 are approximately \$3.4 billion and \$2.2 billion, respectively, of residential whole loans arising from the Company's interests in certain trusts established to acquire the loans and certain entities established in connection with its loan securitization transactions. The Company has assessed that these entities are required to be consolidated for financial reporting purposes.

## Residential Whole Loans, at Carrying Value

The following table presents the components of the Company's Residential whole loans, at carrying value at June 30, 2018 and December 31, 2017:

(Dollars In Thousands)	June 30, 2018	December 31, 2017
Purchased credit impaired loans	\$804,848	\$790,879
Other loans at carrying value:		
Non-QM loans	626,927	55,612
Rehabilitation loans	162,741	56,706
Single-family rental loans	55,571	5,319
Seasoned performing loans	256,155	—
Total other loans at carrying value	\$1,101,394	\$117,637
Total Residential whole loans, at carrying value	\$1,906,242	\$908,516
Number of loans	8,300	4,800

## Purchased Credit Impaired Loans

As of June 30, 2018, the Company had established an allowance for loan losses of approximately \$297,000 on its purchased credit impaired loans held at carrying value. For the three and six months ended June 30, 2018, a net reversal of provision for loan losses of approximately \$83,000 and \$33,000 was recorded, respectively, which is included in Operating and Other expense on the Company's consolidated statements of operations. For the three and six months ended June 30, 2017, a net reversal of provision for loan losses of approximately \$394,000 and \$615,000 was recorded, respectively.

The following table presents the activity in the Company's allowance for loan losses on its purchased credit impaired loans held at carrying value for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Balance at the beginning of period	\$380	\$769	\$330	\$990
Reversal of provisions for loan losses	(83 )	(394 )	(33 )	(615 )
Balance at the end of period	\$297	\$375	\$297	\$375



Information regarding estimates of the contractually required payments, the cash flows expected to be collected, and the estimated fair value of the \$57.6 million and \$101.4 million of purchased credit impaired loans held at carrying value acquired by the Company during the three and six months ended June 30, 2018 and 2017 is not presented as the closing of the purchase transactions had not occurred as of June 30, 2018 and 2017, respectively.

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The following table presents accretable yield activity for the Company's purchased credit impaired loans held at carrying value for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended		Six Months Ended	
	June 30, (1)		June 30, (1)	
	2018	2017	2018	2017
Balance at beginning of period	\$413,404	\$325,551	\$421,872	\$334,379
Accretion	(10,910 )	(8,503 )	(21,941 )	(17,193 )
Liquidations and other	(12,840 )	—	(15,010 )	—
Reclassifications (to)/from non-accretable difference, net	11,421	1,077	16,154	939
Balance at end of period	\$401,075	\$318,125	\$401,075	\$318,125

Excluded from the table above are approximately \$57.6 million and \$101.4 million of purchased credit impaired (1) loans held at carrying value for which the closing of the purchase transaction had not occurred as of June 30, 2018 and 2017, respectively.

Accretable yield for purchased credit impaired residential whole loans is the excess of loan cash flows expected to be collected over the purchase price. The cash flows expected to be collected represent the Company's estimate of the amount and timing of undiscounted principal and interest cash flows. Additions include accretable yield estimates for purchases made during the period and reclassification to accretable yield from non-accretable yield. Accretable yield is reduced by accretion during the period. The reclassifications between accretable and non-accretable yield and the accretion of interest income are based on changes in estimates regarding loan performance and the value of the underlying real estate securing the loans. In future periods, as the Company updates estimates of cash flows expected to be collected from the loans and the underlying collateral, the accretable yield may change. Therefore, the amount of accretable income recorded during the three and six months ended June 30, 2018 is not necessarily indicative of future results.

**Other Loans at Carrying Value**

As of June 30, 2018, there were six loans held at carrying value, that have been placed on non-accrual status as they are more than 90 days delinquent and had not yet become current with respect to the contractually required payments under the loan. Such loans have an unpaid balance of approximately \$2.1 million. These non-performing loans represent approximately 0.2% of the total outstanding principal balance of all of the Company's Other Loans at Carrying Value. Management have assessed the recoverability of these loans and based on estimates of the value of the underlying collateral, no allowance for loan loss reserves has been recorded as of June 30, 2018.

In connection with purchased Rehabilitation loans, the Company has unfunded commitments of \$29.7 million.

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## Residential Whole Loans, at Fair Value

Certain of the Company's residential whole loans are presented at fair value on its consolidated balance sheets as a result of a fair value election made at time of acquisition. Subsequent changes in fair value are reported in current period earnings and presented in Net gain on residential whole loans held at fair value on the Company's consolidated statements of operations.

The following table presents information regarding the Company's residential whole loans held at fair value at June 30, 2018 and December 31, 2017:

(Dollars in Thousands)	June 30, 2018 (1)	December 31, 2017
Less than 60 Days Past Due:		
Outstanding principal balance	\$563,446	\$488,600
Aggregate fair value	\$522,687	\$446,616
Number of loans	2,718	2,323
60 Days to 89 Days Past Due:		
Outstanding principal balance	\$71,880	\$45,955
Aggregate fair value	\$61,112	\$37,927
Number of loans	292	207
90 Days or More Past Due:		
Outstanding principal balance	\$1,025,432	\$1,027,818
Aggregate fair value	\$884,741	\$840,572
Number of loans	3,615	3,984
Total Residential whole loans, at fair value	\$1,468,540	\$1,325,115

(1) Excluded from the table above are approximately \$34.4 million of residential whole loans held at fair value for which the closing of the purchase transaction had not occurred as of June 30, 2018.

The following table presents the components of Net gain on residential whole loans held at fair value for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Coupon payments and other income received	\$19,002	\$9,974	\$34,400	\$18,148
Net unrealized gains	4,599	4,262	18,346	7,209
Net gain on payoff/liquidation of loans	4,044	752	6,952	1,619
Net gain on transfers to REO	4,798	1,220	11,243	3,005
Total	\$32,443	\$16,208	\$70,941	\$29,981



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## 5. Other Assets

The following table presents the components of the Company's Other assets at June 30, 2018 and December 31, 2017:

(In Thousands)	June 30, 2018	December 31, 2017
Securities obtained and pledged as collateral, at fair value	\$253,721	\$ 504,062
REO	192,162	152,356
Interest receivable	31,139	27,415
Swaps, at fair value	11,183	679
Goodwill	7,189	7,189
Prepaid and other assets	122,754	51,208
Total Other Assets	\$618,148	\$ 742,909

## (a) Securities Obtained and Pledged as Collateral/Obligation to Return Securities Obtained as Collateral

The Company has obtained securities as collateral under collateralized financing arrangements in connection with its financing strategy for Non-Agency MBS. Securities obtained as collateral in connection with these transactions are recorded at fair value, with a liability, representing the obligation to return the collateral obtained, recorded in Other liabilities. While beneficial ownership of securities obtained remains with the counterparty, the Company has the right to transfer the collateral obtained or to pledge it as part of a subsequent collateralized financing transaction.

## (b) Real Estate Owned

At June 30, 2018, the Company had 884 REO properties with an aggregate carrying value of \$192.2 million. At December 31, 2017, the Company had 709 REO properties with an aggregate carrying value of \$152.4 million.

During the three and six months ended June 30, 2018, the Company reclassified 251 and 555 mortgage loans to REO at an aggregate estimated fair value less estimated selling costs of \$48.7 million and \$103.5 million, respectively, at the time of transfer. During the three and six months ended June 30, 2017, the Company reclassified 168 and 347 mortgage loans to REO at an aggregate estimated fair value less estimated selling cost of \$27.3 million and \$58.4 million, respectively, at the time of transfer. Such transfers occur when the Company takes possession of the property by foreclosing on the borrower or completes a "deed-in-lieu of foreclosure" transaction. From time to time, the Company also acquires REO in connection with transactions to acquire residential whole loans.

At June 30, 2018, \$183.8 million of residential real estate property was held by the Company that was acquired either through a completed foreclosure proceeding or from completion of a deed-in-lieu of foreclosure or similar legal agreement. In addition, formal foreclosure proceedings were in process with respect to \$46.4 million of residential whole loans held at carrying value and \$780.6 million of residential whole loans held at fair value at June 30, 2018.

During the three and six months ended June 30, 2018, the Company sold 212 and 380 REO properties for consideration of \$40.6 million and \$66.1 million, realizing net gains of approximately \$2.7 million and \$4.7 million,

respectively. During the three and six months ended June 30, 2017, the Company sold 145 and 229 REO properties for consideration of \$21.8 million and \$34.5 million, realizing net gain of approximately \$1.2 million and \$2.0 million, respectively. These amounts are included in Other, net on the Company's consolidated statements of operations. In addition, following an updated assessment of liquidation amounts expected to be realized that was performed on all REO held at the end of the second quarters of 2018 and 2017, downward adjustments of approximately \$4.1 million and \$2.4 million were recorded to reflect certain REO properties at the lower of cost or estimated fair value as of June 30, 2018 and 2017, respectively.

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The following table presents the activity in the Company's REO for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2018	2017	2018	2017
Balance at beginning of period	\$182,940	\$98,708	\$152,356	\$80,503
Adjustments to record at lower of cost or fair value	(4,121 )	(2,354 )	(7,536 )	(4,177 )
Transfer from residential whole loans (1)	48,699	27,345	103,521	58,444
Purchases and capital improvements	2,604	1,109	5,282	1,882
Disposals	(37,960 )	(20,365 )	(61,461 )	(32,209 )
Balance at end of period	\$192,162	\$104,443	\$192,162	\$104,443

(1) Includes net gain recorded on transfer of approximately \$5.3 million and \$1.1 million, for the three months ended June 30, 2018 and 2017, respectively; and approximately \$11.7 million and \$2.5 million for the six months ended June 30, 2018 and 2017, respectively.

## (c) Derivative Instruments

The Company's derivative instruments are currently comprised of Swaps, which are designated as cash flow hedges against the interest rate risk associated with its borrowings. The following table presents the fair value of the Company's derivative instruments and their balance sheet location at June 30, 2018 and December 31, 2017:

Derivative Instrument	Designation	Balance Sheet Location	June 30, 2018		December 31, 2017	
			Notional Amount	Fair Value	Notional Amount	Fair Value
(In Thousands)						
Cleared Swaps (1)	Hedging	Assets	\$2,500,000	\$11,183	\$750,000	\$ 679
Cleared Swaps (1)	Hedging	Liabilities	\$100,000	\$—	\$1,800,000	\$ —

(1) Cleared Swaps represent Swaps executed bilaterally with a counterparty in the over-the-counter market but then novated to a central clearing house, whereby the central clearing house becomes the counterparty to both of the original counterparties.

## Swaps

The following table presents the assets pledged as collateral against the Company's Swap contracts at June 30, 2018 and December 31, 2017:

(In Thousands)	June 30, 2018	December 31, 2017
Agency MBS, at fair value	\$3,097	\$21,756
Restricted cash	—	6,405
Total assets pledged against Swaps	\$3,097	\$28,161

The Company's derivative hedging instruments, or a portion thereof, could become ineffective in the future if the associated repurchase agreements that such derivatives hedge fail to exist or fail to have terms that match those of the derivatives that hedge such borrowings. At June 30, 2018, all of the Company's derivatives were deemed effective for hedging purposes.

The Company's Swaps designated as hedging transactions have the effect of modifying the repricing characteristics of the Company's repurchase agreements and cash flows for such liabilities. To date, no cost has been incurred at the inception of a Swap (except for certain transaction fees related to entering into Swaps cleared through a central clearing house), pursuant to which the Company agrees to pay a fixed rate of interest and receive a variable interest rate, generally based on one-month or three-month London Interbank Offered Rate ("LIBOR"), on the notional amount of the Swap. The Company did not recognize any change in the value of its existing Swaps designated as hedges through earnings as a result of hedge ineffectiveness during the three and six months ended June 30, 2018 and 2017.



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At June 30, 2018, the Company had Swaps (all of which were designated in hedging relationships) with an aggregate notional amount of \$2.6 billion and extended 22 months on average with a maximum term of approximately 62 months.

The following table presents information about the Company's Swaps at June 30, 2018 and December 31, 2017:

Maturity (1)	June 30, 2018				December 31, 2017			
	Notional Amount	Weighted Average Fixed-Pay Interest Rate	Weighted Average Variable Interest Rate (2)	Notional Amount	Weighted Average Fixed-Pay Interest Rate	Weighted Average Variable Interest Rate (2)		
(Dollars in Thousands)								
Within 30 days	\$500,000	1.50 %	2.06 %	\$—	— %	— %		
Over 30 days to 3 months	—	—	—	—	—	—		
Over 3 months to 6 months	—	—	—	50,000	1.45	1.56		
Over 6 months to 12 months	200,000	1.71	2.09	500,000	1.50	1.46		
Over 12 months to 24 months	200,000	2.05	2.10	200,000	1.71	1.54		
Over 24 months to 36 months	1,600,000	2.25	2.09	1,500,000	2.22	1.51		
Over 36 months to 48 months	—	—	—	200,000	2.20	1.53		
Over 48 months to 60 months	—	—	—	—	—	—		
Over 60 months to 72 months (3)	100,000	2.75	2.09	100,000	2.75	1.50		
Total Swaps	\$2,600,000	2.07 %	2.08 %	\$2,550,000	2.04 %	1.50 %		

(1) Each maturity category reflects contractual amortization and/or maturity of notional amounts.

(2) Reflects the benchmark variable rate due from the counterparty at the date presented, which rate adjusts monthly or quarterly based on one-month or three-month LIBOR, respectively.

(3) Reflects one Swap with a maturity date of July 2023.

The following table presents the net impact of the Company's derivative hedging instruments on its interest expense and the weighted average interest rate paid and received for such Swaps for the three and six months ended June 30, 2018 and 2017:

(Dollars in Thousands)	Three Months Ended June 30,		Six Months Ended June 30,		
	2018	2017	2018	2017	
Interest expense attributable to Swaps	\$808	\$6,488	\$3,640	\$14,297	
Weighted average Swap rate paid	2.05 %	1.98 %	2.04 %	1.93 %	
Weighted average Swap rate received	1.92 %	1.01 %	1.76 %	0.90 %	

## Impact of Derivative Hedging Instruments on AOCI

The following table presents the impact of the Company's derivative hedging instruments on its AOCI for the three and six months ended June 30, 2018 and 2017:

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(In Thousands)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
AOCI from derivative hedging instruments:				
Balance at beginning of period	\$8,245	\$(34,824)	\$(11,424)	\$(46,721)
Net gain/(loss) on Swaps	7,915	(1,017 )	27,584	10,880
Balance at end of period	\$16,160	\$(35,841)	\$16,160	\$(35,841)

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## 6. Repurchase Agreements

The Company's repurchase agreements are accounted for as secured borrowings and bear interest that is generally LIBOR-based. (See Notes 2(k) and 7) At June 30, 2018, the Company's borrowings under repurchase agreements had a weighted average remaining term-to-interest rate reset of 14 days and an effective repricing period of 9 months, including the impact of related Swaps. At December 31, 2017, the Company's borrowings under repurchase agreements had a weighted average remaining term-to-interest rate reset of 16 days and an effective repricing period of 11 months, including the impact of related Swaps.

The following table presents information with respect to the Company's borrowings under repurchase agreements and associated assets pledged as collateral at June 30, 2018 and December 31, 2017:

(Dollars in Thousands)	June 30, 2018	December 31, 2017		
Repurchase agreement borrowings secured by Agency MBS	\$2,111,547	\$2,501,340		
Fair value of Agency MBS pledged as collateral under repurchase agreements	\$2,283,312	\$2,705,754		
Weighted average haircut on Agency MBS (1)	4.52	%	4.65	%
Repurchase agreement borrowings secured by Legacy Non-Agency MBS	\$1,364,458	\$1,256,033		
Fair value of Legacy Non-Agency MBS pledged as collateral under repurchase agreements	\$1,813,359	\$1,652,983		
Weighted average haircut on Legacy Non-Agency MBS (1)	21.24	%	21.87	%
Repurchase agreement borrowings secured by RPL/NPL MBS	\$499,294	\$567,140		
Fair value of RPL/NPL MBS pledged as collateral under repurchase agreements	\$634,073	\$726,540		
Weighted average haircut on RPL/NPL MBS (1)	22.01	%	22.05	%
Repurchase agreements secured by U.S. Treasuries	\$220,931	\$470,334		
Fair value of U.S. Treasuries pledged as collateral under repurchase agreements	\$220,731	\$472,095		
Weighted average haircut on U.S. Treasuries (1)	1.00	%	1.47	%
Repurchase agreements secured by CRT securities	\$410,157	\$459,058		
Fair value of CRT securities pledged as collateral under repurchase agreements	\$516,486	\$595,900		
Weighted average haircut on CRT securities (1)	20.43	%	22.16	%
Repurchase agreements secured by MSR related assets	\$297,063	\$317,255		
Fair value of MSR related assets pledged as collateral under repurchase agreements	\$381,390	\$482,158		
Weighted average haircut on MSR related assets (1)	21.70	%	33.19	%
Repurchase agreements secured by residential whole loans (2)	\$988,831	\$1,043,747		
Fair value of residential whole loans pledged as collateral under repurchase agreements	\$1,382,068	\$1,474,704		
Weighted average haircut on residential whole loans (1)	25.55	%	26.10	%

(1) Haircut represents the percentage amount by which the collateral value is contractually required to exceed the loan amount.

(2) Excludes \$53,000 and \$206,000 of unamortized debt issuance costs at June 30, 2018 and December 31, 2017, respectively.

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The following table presents repricing information about the Company's borrowings under repurchase agreements, which does not reflect the impact of associated derivative hedging instruments, at June 30, 2018 and December 31, 2017:

Time Until Interest Rate Reset	June 30, 2018		December 31, 2017	
	Balance	Weighted Average Interest Rate	Balance	Weighted Average Interest Rate
(Dollars in Thousands)				
Within 30 days	\$5,682,864	2.92 %	\$6,161,008	2.39 %
Over 30 days to 3 months	209,417	3.24	453,899	2.76
Total repurchase agreements	5,892,281	2.93 %	6,614,907	2.42 %
Less debt issuance costs	53		206	
Total repurchase agreements less debt issuance costs	\$5,892,228		\$6,614,701	

The following table presents contractual maturity information about the Company's borrowings under repurchase agreements, all of which are accounted for as secured borrowings, at June 30, 2018, and does not reflect the impact of derivative contracts that hedge such repurchase agreements:

Contractual Maturity	June 30, 2018					Total	
	Overnight	Within 30 Days	Over 30 Days to 3 Months	Over 3 Months to 12 Months	Over 12 months		
(Dollars in Thousands)							
Agency MBS	\$—	\$2,111,547	\$—	\$—	\$—	\$2,111,547	
Legacy Non-Agency MBS	—	1,268,585	95,873	—	—	1,364,458	
RPL/NPL MBS	—	439,865	59,429	—	—	499,294	
U.S. Treasuries	—	220,931	—	—	—	220,931	
CRT securities	—	404,042	6,115	—	—	410,157	
MSR related assets	—	249,063	48,000	—	—	297,063	
Residential whole loans	—	—	234,665	754,166	—	988,831	
Total (1)	\$—	\$4,694,033	\$444,082	\$754,166	\$—	\$5,892,281	
Weighted Average Interest Rate	—%	2.65	% 3.65	% 4.28	% —	% 2.93	%

Gross amount of recognized liabilities for repurchase agreements in Note 8 \$5,892,281  
Amounts related to repurchase agreements not included in offsetting disclosure in Note 8 \$—

(1) Excludes \$53,000 of unamortized debt issuance costs at June 30, 2018.

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The Company had repurchase agreement borrowings with 26 and 31 counterparties at June 30, 2018 and December 31, 2017. The following table presents information with respect to each counterparty under repurchase agreements for which the Company had greater than 5% of stockholders' equity at risk in the aggregate at June 30, 2018:

Counterparty	June 30, 2018			
	Counterparty Rating (1)	Amount at Risk (2)	Weighted Average Months to Maturity for Repurchase Agreements	Percent of Stockholders' Equity
(Dollars in Thousands)				
Goldman Sachs (3)	BBB+/A3/A	\$228,240	1	7.1 %
Wells Fargo (4)	A+/Aa2/AA-	215,022	5	6.7

(1) As rated at June 30, 2018 by S&P, Moody's and Fitch, Inc., respectively. The counterparty rating presented is the lowest published for these entities.

(2) The amount at risk reflects the difference between (a) the amount loaned to the Company through repurchase agreements, including interest payable, and (b) the cash and the fair value of the securities pledged by the Company as collateral, including accrued interest receivable on such securities.

(3) Includes \$110.1 million at risk with Goldman Sachs Lending Partners and \$118.2 million at risk with Goldman Sachs Bank USA.

(4) Includes \$207.8 million at risk with Wells Fargo Bank, NA and \$7.2 million at risk with Wells Fargo Securities LLC.

## 7. Collateral Positions

The Company pledges securities or cash as collateral to its counterparties pursuant to its borrowings under repurchase agreements and for initial margin payments on centrally cleared Swaps. In addition, the Company receives securities or cash as collateral pursuant to financing provided under reverse repurchase agreements. The Company exchanges collateral with its counterparties based on changes in the fair value, notional amount and term of the associated repurchase agreements and Swap contracts, as applicable. In connection with these margining practices, either the Company or its counterparty may be required to pledge cash or securities as collateral. When the Company's pledged collateral exceeds the required margin, the Company may initiate a reverse margin call, at which time the counterparty may either return the excess collateral or provide collateral to the Company in the form of cash or equivalent securities.

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The following table summarizes the fair value of the Company's collateral positions, which includes collateral pledged and collateral held, with respect to its borrowings under repurchase agreements, reverse repurchase agreements and derivative hedging instruments at June 30, 2018 and December 31, 2017:

(In Thousands)	June 30, 2018		December 31, 2017	
	Assets Pledged	Collateral Held	Assets Pledged	Collateral Held
<b>Derivative Hedging Instruments:</b>				
Agency MBS	\$3,097	\$ —	\$21,756	\$ —
Cash (1)	—	—	6,405	—
	3,097	—	28,161	—
<b>Repurchase Agreement Borrowings:</b>				
Agency MBS	2,283,312	—	2,705,754	—
Legacy Non-Agency MBS (2)	1,813,359	—	1,652,983	—
RPL/NPL MBS	634,073	—	726,540	—
U.S. Treasury securities	220,731	—	472,095	—
CRT securities	516,486	—	595,900	—
MSR related assets	381,390	—	482,158	—
Residential whole loans	1,382,068	—	1,474,704	—
Cash (1)	3,298	—	6,902	—
	7,234,717	—	8,117,036	—
<b>Reverse Repurchase Agreements:</b>				
U.S. Treasury securities	—	253,721	—	504,062
	—	253,721	—	504,062
<b>Total</b>	<b>\$7,237,814</b>	<b>\$ 253,721</b>	<b>\$8,145,197</b>	<b>\$ 504,062</b>

(1) Cash pledged as collateral is reported as "Restricted cash" on the Company's consolidated balance sheets.

(2) In addition, at June 30, 2018 and December 31, 2017, \$320.3 million and \$688.1 million of Legacy Non-Agency MBS, respectively, are pledged as collateral in connection with contemporaneous repurchase and reverse repurchase agreements entered into with a single counterparty.

The following table presents detailed information about the Company's assets pledged as collateral pursuant to its borrowings under repurchase agreements and derivative hedging instruments at June 30, 2018:

(In Thousands)	June 30, 2018			Assets Pledged Against Derivative Hedging Instruments			Total Fair Value of Assets Pledged and Accrued Interest
	Assets Pledged Under Repurchase Agreements	Fair Value	Accrued Interest on Pledged Assets	Fair Value/Carrying Value	Amortized Cost	Accrued Interest on Pledged Assets	
Agency MBS	\$2,283,312	\$2,318,975	\$ 6,281	\$ 3,097	\$ 3,242	\$ 8	\$2,292,698
Legacy Non-Agency MBS (1)	1,813,359	1,377,319	7,119	—	—	—	1,820,478
RPL/NPL MBS	634,073	633,223	502	—	—	—	634,575
U.S. Treasuries	220,731	—	—	—	—	—	220,731
CRT securities	516,486	475,568	451	—	—	—	516,937

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MSR related assets	381,390	380,350	428	—	—	—	381,818
Residential whole loans (2)	1,382,068	1,349,191	4,898	—	—	—	1,386,966
Cash (3)	3,298	3,298	—	—	—	—	3,298
Total	\$7,234,717	\$6,537,924	\$ 19,679	\$ 3,097	\$ 3,242	\$ 8	\$7,257,501

- (1) In addition, at June 30, 2018, \$320.3 million of Legacy Non-Agency MBS are pledged as collateral in connection with contemporaneous repurchase and reverse repurchase agreements entered into with a single counterparty. Includes residential whole loans held at carrying value with an aggregate fair value of \$429.7 million and aggregate (2) amortized cost of \$396.9 million and residential whole loans held at fair value with an aggregate fair value and amortized cost of \$952.3 million.
- (3) Cash pledged as collateral is reported as “Restricted cash” on the Company’s consolidated balance sheets.

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## 8. Offsetting Assets and Liabilities

The following tables present information about certain assets and liabilities that are subject to master netting arrangements (or similar agreements) and may potentially be offset on the Company's consolidated balance sheets at June 30, 2018 and December 31, 2017:

## Offsetting of Financial Assets and Derivative Assets

(In Thousands)	Gross Amounts of Recognized Assets	Gross Amounts Offset in the Consolidated Balance Sheets	Net Amounts of Assets Presented in the Consolidated Balance Sheets	Gross Amounts Not Offset in the Consolidated Balance Sheets Financial Instruments	Cash Collateral Received	Net Amount
June 30, 2018						
Swaps, at fair value	\$ 11,183	\$ —	\$ 11,183	\$ (11,183)	\$ —	\$ —
Total	\$ 11,183	\$ —	\$ 11,183	\$ (11,183)	\$ —	\$ —
December 31, 2017						
Swaps, at fair value	\$ 679	\$ —	\$ 679	\$ (679)	\$ —	\$ —
Total	\$ 679	\$ —	\$ 679	\$ (679)	\$ —	\$ —

## Offsetting of Financial Liabilities and Derivative Liabilities

(In Thousands)	Gross Amounts of Recognized Liabilities	Gross Amounts Offset in the Consolidated Balance Sheets	Net Amounts of Liabilities Presented in the Consolidated Balance Sheets	Gross Amounts Not Offset in the Consolidated Balance Sheets Financial Instruments (1)	Cash Collateral Pledged (1)	Net Amount
June 30, 2018						
Swaps, at fair value (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Repurchase agreements (3)(4)	5,892,281	—	5,892,281	(5,888,983)	(3,298)	—
Total	\$ 5,892,281	\$ —	\$ 5,892,281	\$ (5,888,983)	\$ (3,298)	\$ —
December 31, 2017						
Swaps, at fair value (2)	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Repurchase agreements (3)(4)	6,614,907	—	6,614,907	(6,608,005)	(6,902)	—
Total	\$ 6,614,907	\$ —	\$ 6,614,907	\$ (6,608,005)	\$ (6,902)	\$ —

(1) Amounts disclosed in the Financial Instruments column of the above table represent collateral pledged that is available to be offset against liability balances associated with repurchase agreements. Amounts disclosed in the Cash Collateral Pledged column of the above table represent amounts pledged as collateral against repurchase agreements.

(2) The fair value of securities pledged against the Company's Swaps was \$3.1 million and \$21.8 million at June 30, 2018 and December 31, 2017, respectively. Beginning in January 2017, variation margin payments on the Company's cleared Swaps are treated as a legal settlement of the exposure under the Swap contract. Previously such payments were treated as collateral pledged against the exposure under the Swap contract. The effect of this change is to reduce



what would have otherwise been reported as fair value of the Swap.

(3) The fair value of financial instruments pledged against the Company's repurchase agreements was \$7.2 billion and \$8.1 billion at June 30, 2018 and December 31, 2017, respectively.

(4) Excludes \$53,000 and \$206,000 of unamortized debt issuance costs at June 30, 2018 and December 31, 2017, respectively.

#### Nature of Setoff Rights

In the Company's consolidated balance sheets, all balances associated with repurchase agreements are presented on a gross basis. Certain of the Company's repurchase agreement and derivative transactions are governed by underlying agreements that generally provide for a right of setoff in the event of default or in the event of a bankruptcy of either party to the transaction. For one repurchase agreement counterparty, the underlying agreements provide for an unconditional right of setoff.

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## 9. Other Liabilities

The following table presents the components of the Company's Other liabilities at June 30, 2018 and December 31, 2017:

(In Thousands)	June 30, 2018	December 31, 2017
Securitized debt (1)	\$518,655	\$ 363,944
Obligation to return securities held as collateral, at fair value	253,721	504,062
Senior Notes	96,794	96,773
Dividends and dividend equivalents payable	79,948	79,771
Accrued interest payable	11,018	12,263
Accrued expenses and other liabilities	17,871	21,584
Total Other Liabilities	\$978,007	\$ 1,078,397

Securitized debt represents third-party liabilities of consolidated VIEs and excludes liabilities of the VIEs acquired (1) by the Company that are eliminated in consolidation. The third-party beneficial interest holders in the VIEs have no recourse to the general credit of the Company. (See Notes 10 and 15 for further discussion.)

## Senior Notes

On April 11, 2012, the Company issued \$100.0 million in aggregate principal amount of its Senior Notes in an underwritten public offering. The total net proceeds to the Company from the offering of the Senior Notes were approximately \$96.6 million, after deducting offering expenses and the underwriting discount. The Senior Notes bear interest at a fixed rate of 8.00% per year, paid quarterly in arrears on January 15, April 15, July 15 and October 15 of each year and will mature on April 15, 2042. The Senior Notes have an effective interest rate, including the impact of amortization to interest expense of debt issuance costs, of 8.31%. The Company may redeem the Senior Notes, in whole or in part, at any time on or after April 15, 2017, at a redemption price equal to 100% of the principal amount redeemed plus accrued and unpaid interest to, but not excluding, the redemption date.

The Senior Notes are the Company's senior unsecured obligations and are subordinate to all of the Company's secured indebtedness, which includes the Company's repurchase agreements, obligation to return securities obtained as collateral and other financing arrangements, to the extent of the value of the collateral securing such indebtedness.

## 10. Commitments and Contingencies

## (a) Lease Commitments

The Company pays monthly rent pursuant to two operating leases. The lease term for the Company's headquarters in New York, New York extends through June 30, 2020. The lease provides for aggregate cash payments ranging over time of approximately \$2.6 million per year, paid on a monthly basis, exclusive of escalation charges. In addition, as part of this lease agreement, the Company has provided the landlord a \$785,000 irrevocable standby letter of credit fully collateralized by cash. The letter of credit may be drawn upon by the landlord in the event that the Company defaults under certain terms of the lease. In addition, the Company has a lease through December 31, 2021 for its off-site back-up facility located in Rockville Centre, New York, which provides for, among other things, lease

payments totaling \$32,000 annually.

(b) Representations and Warranties in Connection with Loan Securitization Transactions

In connection with the loan securitization transactions entered into by the Company, the Company has the obligation under certain circumstances to repurchase assets previously transferred to securitization vehicles upon breach of certain representations and warranties. As of June 30, 2018, the Company had no reserve established for repurchases of loans and was not aware of any material unsettled repurchase claims that would require the establishment of such a reserve. (See Note 15)

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(c) MBS Purchase Commitment

At June 30, 2018, the Company had a commitment to purchase Non-Agency MBS at an estimated price of \$61.0 million. The expected settlement amount is included in the Non-Agency MBS balances presented at fair value on the Company's consolidated balance sheets, with a corresponding liability in Payable for unsettled MBS and residential whole loan purchases.

(d) Residential Whole Loan Purchase Commitments

At June 30, 2018, the Company has agreed, subject to the completion of due diligence and customary closing conditions, to purchase residential whole loans at an aggregate estimated purchase price of \$506.9 million, including \$57.6 million of purchased credit impaired loans held at carrying value, \$414.9 million of other loans held at carrying value and \$34.4 million of residential whole loans held at fair value. The expected settlement amounts are included in the Company's consolidated balance sheets in Residential whole loans, at carrying value and Residential whole loans, at fair value, respectively, with a corresponding liability included in Payable for unsettled MBS and residential whole loan purchases.

11. Stockholders' Equity

(a) Preferred Stock

On April 15, 2013, the Company completed the issuance of 8.0 million shares of its 7.50% Series B Cumulative Redeemable Preferred Stock ("Series B Preferred Stock") with a par value of \$0.01 per share, and a liquidation preference of \$25.00 per share plus accrued and unpaid dividends, in an underwritten public offering. The Company's Series B Preferred Stock is entitled to receive a dividend at a rate of 7.50% per year on the \$25.00 liquidation preference before the Company's common stock is paid any dividends and is senior to the Company's common stock with respect to distributions upon liquidation, dissolution or winding up. Dividends on the Series B Preferred Stock are payable quarterly in arrears on or about March 31, June 30, September 30 and December 31 of each year. The Series B 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 on April 15, 2018 (subject to the Company's right, under limited circumstances, to redeem the Series B Preferred Stock prior to that date in order to preserve its qualification as a REIT) and upon certain specified change in control transactions in which the Company's common stock and the acquiring or surviving entity common securities would not be listed on the New York Stock Exchange (the "NYSE"), the NYSE American or NASDAQ, or any successor exchange.

The Series B Preferred Stock generally does not have any voting rights, subject to an exception in the event the Company fails to pay dividends on such stock for six or more quarterly periods (whether or not consecutive). Under such circumstances, the Series B Preferred Stock will be entitled to vote to elect two additional directors to the Company's Board of Directors (the "Board"), until all unpaid dividends have been paid or declared and set apart for payment. In addition, certain material and adverse changes to the terms of the Series B Preferred Stock cannot be made without the affirmative vote of holders of at least 66 2/3% of the outstanding shares of Series B Preferred Stock.

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The following table presents cash dividends declared by the Company on its Series B Preferred Stock from January 1, 2018 through June 30, 2018:

Declaration Date	Record Date	Payment Date	Dividend Per Share
May 17, 2018	June 4, 2018	June 29, 2018	\$ 0.46875
February 20, 2018	March 2, 2018	March 30, 2018	0.46875

## (b) Dividends on Common Stock

The following table presents cash dividends declared by the Company on its common stock from January 1, 2018 through June 30, 2018:

Declaration Date (1)	Record Date	Payment Date	Dividend Per Share
June 7, 2018	June 29, 2018	July 31, 2018	\$ 0.20 (1)
March 7, 2018	March 29, 2018	April 30, 2018	0.20

(1) At June 30, 2018, the Company had accrued dividends and dividend equivalents payable of \$79.9 million related to the common stock dividend declared on June 7, 2018.

## (c) Public Offering of Common Stock

The Company did not issue any common stock through public offerings during the six months ended June 30, 2018. The table below presents information with respect to shares of the Company's common stock issued through public offerings during the year ended December 31, 2017.

Share Issue Date	Shares Issued	Gross Proceeds Per Share	Gross Proceeds
(In Thousands, Except Per Share Amounts)			
May 10, 2017	23,000	\$ 7.85	\$ 180,550(1)

(1) The Company incurred approximately \$415,000 of underwriting discounts and related expenses in connection with this equity offering.

## (d) Discount Waiver, Direct Stock Purchase and Dividend Reinvestment Plan ("DRSPP")

On September 16, 2016, the Company filed a shelf registration statement on Form S-3 with the SEC under the Securities Act of 1933, as amended (the "1933 Act"), for the purpose of registering additional common stock for sale through its DRSPP. Pursuant to Rule 462(e) of the 1933 Act, this shelf registration statement became effective automatically upon filing with the SEC and, when combined with the unused portion of the Company's previous DRSPP shelf registration statements, registered an aggregate of 15 million shares of common stock. The Company's DRSPP is designed to provide existing stockholders and new investors with a convenient and economical way to purchase shares of common stock through the automatic reinvestment of dividends and/or optional cash investments. At June 30, 2018, 12.0 million shares of common stock remained available for issuance pursuant to the DRSPP shelf registration statement.

During the three and six months ended June 30, 2018, the Company issued 63,555 and 237,533 shares of common stock through the DRSP, raising net proceeds of approximately \$480,000 and \$1.7 million, respectively. From the inception of the DRSP in September 2003 through June 30, 2018, the Company issued 33,913,510 shares pursuant to the DRSP, raising net proceeds of \$283.1 million.

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## (e) Stock Repurchase Program

As previously disclosed, in August 2005, the Company's Board authorized a stock repurchase program (the "Repurchase Program") to repurchase up to 4.0 million shares of its outstanding common stock. The Board reaffirmed such authorization in May 2010. In December 2013, the Board increased the number of shares authorized under the Repurchase Program to an aggregate of 10.0 million. Such authorization does not have an expiration date and, at present, there is no intention to modify or otherwise rescind such authorization. Subject to applicable securities laws, repurchases of common stock under the Repurchase Program are made at times and in amounts as the Company deems appropriate, (including, in our discretion, through the use of one or more plans adopted under Rule 10b5-1 promulgated under the Securities Exchange Act of 1934, as amended (the "1934 Act")) using available cash resources. Shares of common stock repurchased by the Company under the Repurchase Program are cancelled and, until reissued by the Company, are deemed to be authorized but unissued shares of the Company's common stock. The Repurchase Program may be suspended or discontinued by the Company at any time and without prior notice. The Company did not repurchase any shares of its common stock during the six months ended June 30, 2018. At June 30, 2018, 6,616,355 shares remained authorized for repurchase under the Repurchase Program.

## (f) Accumulated Other Comprehensive Income/(Loss)

The following table presents changes in the balances of each component of the Company's AOCI for the three and six months ended June 30, 2018:

(In Thousands)	Three Months Ended June 30, 2018			Six Months Ended June 30, 2018		
	Net Unrealized Net Gain/(Loss)(Loss)/Gain	AFS on Swaps Securities	Total AOCI	Net Unrealized Net Gain/(Loss)(Loss)/Gain	AFS on Swaps Securities	Total AOCI
Balance at beginning of period	\$574,485	\$ 8,245	\$ 582,730	\$620,648	\$(11,424 )	\$ 609,224
OCI before reclassifications	(20,756 )	7,915	(12,841 )	(56,639 )	27,584	(29,055 )
Amounts reclassified from AOCI (1)	(5,178 )	—	(5,178 )	(15,458 )	—	(15,458 )
Net OCI during the period (2)	(25,934 )	7,915	(18,019 )	(72,097 )	27,584	(44,513 )
Balance at end of period	\$548,551	\$ 16,160	\$ 564,711	\$548,551	\$ 16,160	\$ 564,711

(1) See separate table below for details about these reclassifications.

(2) For further information regarding changes in OCI, see the Company's consolidated statements of comprehensive income/(loss).

The following table presents changes in the balances of each component of the Company's AOCI for the three and six months ended June 30, 2017:

(In Thousands)	Three Months Ended June 30, 2017			Six Months Ended June 30, 2017		
	Net Unrealized Gain/(Loss)on	Net (Loss)/Gain on Swaps	Total AOCI	Net Unrealized Gain/(Loss)on	Net (Loss)/Gain on Swaps	Total AOCI

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	AFS Securities			AFS Securities		
Balance at beginning of period	\$629,487	\$ (34,824 )	\$ 594,663	\$620,403	\$ (46,721 )	\$ 573,682
OCI before reclassifications	45,010	(1,017 )	43,993	64,454	10,880	75,334
Amounts reclassified from AOCI (1)	(6,274 )	—	(6,274 )	(16,634 )	—	(16,634 )
Net OCI during the period (2)	38,736	(1,017 )	37,719	47,820	10,880	58,700
Balance at end of period	\$668,223	\$ (35,841 )	\$ 632,382	\$668,223	\$ (35,841 )	\$ 632,382

(1) See separate table below for details about these reclassifications.

(2) For further information regarding changes in OCI, see the Company's consolidated statements of comprehensive income/(loss).



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The following table presents information about the significant amounts reclassified out of the Company's AOCI for the three and six months ended June 30, 2018:

	Three Months Ended June 30, 2018	Six Months Ended June 30, 2018	
Details about AOCI Components	Amounts Reclassified from AOCI		Affected Line Item in the Statement Where Net Income is Presented
(In Thousands)			
AFS Securities:			
Realized gain on sale of securities	\$(5,178)	\$(15,458)	Net gain on sales of investment securities
Total AFS Securities	\$(5,178)	\$(15,458)	
Total reclassifications for period	\$(5,178)	\$(15,458)	

The following table presents information about the significant amounts reclassified out of the Company's AOCI for the three and six months ended June 30, 2017:

	Three Months Ended June 30, 2017	Six Months Ended June 30, 2017	
Details about AOCI Components	Amounts Reclassified from AOCI		Affected Line Item in the Statement Where Net Income is Presented
(In Thousands)			
AFS Securities:			
Realized gain on sale of securities	\$(5,656)	\$(15,602)	Net gain on sales of investment securities
OTTI recognized in earnings	(618 )	(1,032 )	Net impairment losses recognized in earnings
Total AFS Securities	\$(6,274)	\$(16,634)	
Total reclassifications for period	\$(6,274)	\$(16,634)	

On securities for which OTTI had been recognized in prior periods, the Company did not have any unrealized losses recorded in AOCI at June 30, 2018 and December 31, 2017.

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## 12. EPS Calculation

The following table presents a reconciliation of the earnings and shares used in calculating basic and diluted EPS for the three and six months ended June 30, 2018 and 2017:

(In Thousands, Except Per Share Amounts)	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Numerator:				
Net income	\$70,395	\$79,935	\$153,790	\$157,995
Dividends declared on preferred stock	(3,750 )	(3,750 )	(7,500 )	(7,500 )
Dividends, dividend equivalents and undistributed earnings allocated to participating securities	(472 )	(459 )	(921 )	(890 )
Net income to common stockholders - basic and diluted	\$66,173	\$75,726	\$145,369	\$149,605
Denominator:				
Weighted average common shares for basic and diluted earnings per share (1)	398,478	386,303	398,398	379,479
Basic and diluted earnings per share	\$0.17	\$0.20	\$0.36	\$0.39

At June 30, 2018, the Company had approximately 2.3 million equity instruments outstanding that were not included in the calculation of diluted EPS for the three and six months ended June 30, 2018, as their inclusion (1) would have been anti-dilutive. These equity instruments reflect RSUs (based on current estimate of expected share settlement amount) with a weighted average grant date fair value of \$6.74. These equity instruments may have a dilutive impact on future EPS.

## 13. Equity Compensation, Employment Agreements and Other Benefit Plans

## (a) Equity Compensation Plan

In accordance with the terms of the Company's Equity Plan, which was adopted by the Company's stockholders on May 21, 2015 (and which amended and restated the Company's 2010 Equity Compensation Plan), directors, officers and employees of the Company and any of its subsidiaries and other persons expected to provide significant services for the Company and any of its subsidiaries are eligible to receive grants of stock options ("Options"), restricted stock, RSUs, dividend equivalent rights and other stock-based awards under the Equity Plan.

Subject to certain exceptions, stock-based awards relating to a maximum of 12.0 million shares of common stock may be granted under the Equity Plan; forfeitures and/or awards that expire unexercised do not count towards this limit. At June 30, 2018, approximately 5.7 million shares of common stock remained available for grant in connection with stock-based awards under the Equity Plan. A participant may generally not receive stock-based awards in excess of 1.5 million shares of common stock in any one year and no award may be granted to any person who, assuming exercise of all Options and payment of all awards held by such person, would own or be deemed to own more than 9.8% of the outstanding shares of the Company's common stock. Unless previously terminated by the Board, awards may be granted under the Equity Plan until May 20, 2025.

## Restricted Stock Units

Under the terms of the Equity Plan, RSUs are instruments that provide the holder with the right to receive, subject to the satisfaction of conditions set by the Compensation Committee at the time of grant, a payment of a specified value, which may be a share of the Company's common stock, the fair market value of a share of the Company's common stock, or such fair market value to the extent in excess of an established base value, on the applicable settlement date. Although the Equity Plan permits the Company to issue RSUs that can settle in cash, all of the Company's outstanding RSUs as of June 30, 2018 are designated to be settled in shares of the Company's common stock. The Company granted 151,302 and 843,802 RSUs during the three and six months ended June 30, 2018, respectively, and granted 140,195 and 898,945 RSUs during the three and six months ended June 30, 2017, respectively. There were 20,000 RSUs forfeited during the six months ended June 30, 2018. There were no RSUs forfeited during the six months ended June 30, 2017. All RSUs outstanding at June 30, 2018 may be entitled to receive dividend

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equivalent payments depending on the terms and conditions of the award either in cash at the time dividends are paid by the Company, or for certain performance-based RSU awards, as a grant of stock at the time such awards are settled. At June 30, 2018 and December 31, 2017, the Company had unrecognized compensation expense of \$7.3 million and \$4.1 million, respectively, related to RSUs. The unrecognized compensation expense at June 30, 2018 is expected to be recognized over a weighted average period of 2.0 years.

**Restricted Stock**

The Company did not award any shares of restricted common stock during the six months ended June 30, 2018 and 2017. At June 30, 2018, the Company did not have any unvested shares of restricted common stock outstanding.

**Dividend Equivalents**

A dividend equivalent is a right to receive a distribution equal to the dividend distributions that would be paid on a share of the Company's common stock. Dividend equivalents may be granted as a separate instrument or may be a right associated with the grant of another award (e.g., an RSU) under the Equity Plan, and they are paid in cash or other consideration at such times and in accordance with such rules, terms and conditions, as the Compensation Committee may determine in its discretion.

**Expense Recognized for Equity-Based Compensation Instruments**

The following table presents the Company's expenses related to its equity-based compensation instruments for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months		Six Months	
	Ended		Ended	
	June 30,	June 30,	June 30,	June 30,
RSUs	2018	2017	2018	2017
Restricted shares of common stock	\$2,256	\$2,302	\$2,809	\$3,358
Total	—	51	—	101
	\$2,256	\$2,353	\$2,809	\$3,459

**(b) Employment Agreements**

At June 30, 2018, the Company had employment agreements with four of its officers, with varying terms that provide for, among other things, base salary, bonus and change-in-control payments upon the occurrence of certain triggering events.

**(c) Deferred Compensation Plans**

The Company administers deferred compensation plans for its senior officers and non-employee directors (collectively, the "Deferred Plans"), pursuant to which participants may elect to defer up to 100% of certain cash compensation. The Deferred Plans are designed to align participants' interests with those of the Company's stockholders.

Amounts deferred under the Deferred Plans are considered to be converted into “stock units” of the Company. Stock units do not represent stock of the Company, but rather are a liability of the Company that changes in value as would equivalent shares of the Company’s common stock. Deferred compensation liabilities are settled in cash at the termination of the deferral period, based on the value of the stock units at that time. The Deferred Plans are non-qualified plans under the Employee Retirement Income Security Act of 1974 and, as such, are not funded. Prior to the time that the deferred accounts are settled, participants are unsecured creditors of the Company.

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The Company's liability for stock units in the Deferred Plans is based on the market price of the Company's common stock at the measurement date. The following table presents the Company's expenses related to its Deferred Plans for the three and six months ended June 30, 2018 and 2017:

	Three Months Ended June 30, 2018	Six Months Ended June 30, 2017	Three Months Ended June 30, 2018	Six Months Ended June 30, 2017
(In Thousands)				
Non-employee directors	\$71	\$100	\$22	\$214
Total	\$71	\$100	\$22	\$214

The following table presents the aggregate amount of income deferred by participants of the Deferred Plans through June 30, 2018 and December 31, 2017 that had not been distributed and the Company's associated liability for such deferrals at June 30, 2018 and December 31, 2017:

	June 30, 2018	December 31, 2017	June 30, 2018	December 31, 2017
(In Thousands)				
	Undistributed Income Deferred	Liability Under Deferred Plans	Undistributed Income Deferred	Liability Under Deferred Plans
Non-employee directors	\$2,100	\$ 2,441	\$1,688	\$ 2,056
Total	\$2,100	\$ 2,441	\$1,688	\$ 2,056

(1) Represents the cumulative amounts that were deferred by participants through June 30, 2018 and December 31, 2017, which had not been distributed through such respective date.

## (d) Savings Plan

The Company sponsors a tax-qualified employee savings plan (the "Savings Plan") in accordance with Section 401(k) of the Code. Subject to certain restrictions, all of the Company's employees are eligible to make tax-deferred contributions to the Savings Plan subject to limitations under applicable law. Participant's accounts are self-directed and the Company bears the costs of administering the Savings Plan. The Company matches 100% of the first 3% of eligible compensation deferred by employees and 50% of the next 2%, subject to a maximum as provided by the Code. The Company has elected to operate the Savings Plan under the applicable safe harbor provisions of the Code, whereby among other things, the Company must make contributions for all participating employees and all matches contributed by the Company immediately vest 100%. For the three months ended June 30, 2018 and 2017, the Company recognized expenses for matching contributions of \$89,500 and \$87,500, respectively, \$193,000 and \$175,000 for the six months ended June 30, 2018 and 2017, respectively.

## 14. Fair Value of Financial Instruments

A financial instrument's categorization within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. The three levels of valuation hierarchy are defined as follows:

Level 1 — Inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or 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 the fair value measurement.

The following describes the valuation methodologies used for the Company's financial instruments measured at fair value on a recurring basis, as well as the general classification of such instruments pursuant to the valuation hierarchy.

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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

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Securities Obtained and Pledged as Collateral/Obligation to Return Securities Obtained as Collateral

The fair value of U.S. Treasury securities obtained as collateral and the associated obligation to return securities obtained as collateral are based upon prices obtained from a third-party pricing service, which are indicative of market activity. Securities obtained as collateral are classified as Level 1 in the fair value hierarchy.

MBS and CRT Securities

The Company determines the fair value of its Agency MBS based upon prices obtained from third-party pricing services, which are indicative of market activity, and repurchase agreement counterparties.

For Agency MBS, the valuation methodology of the Company's third-party pricing services incorporate commonly used market pricing methods, trading activity observed in the marketplace and other data inputs. The methodology also considers the underlying characteristics of each security, which are also observable inputs, including: collateral vintage, coupon, maturity date, loan age, reset date, collateral type, periodic and life cap, geography, and prepayment speeds. Management analyzes pricing data received from third-party pricing services and compares it to other indications of fair value including data received from repurchase agreement counterparties and its own observations of trading activity observed in the marketplace.

In determining the fair value of the Company's Non-Agency MBS and CRT securities, management considers a number of observable market data points, including prices obtained from pricing services and brokers as well as dialogue with market participants. In valuing Non-Agency MBS, the Company understands that pricing services use observable inputs that include, in addition to trading activity observed in the marketplace, loan delinquency data, credit enhancement levels and vintage, which are taken into account to assign pricing factors such as spread and prepayment assumptions. For tranches of Legacy Non-Agency MBS that are cross-collateralized, performance of all collateral groups involved in the tranche are considered. The Company collects and considers current market intelligence on all major markets, including benchmark security evaluations and bid-lists from various sources, when available.

The Company's Legacy Non-Agency MBS, RPL/NPL MBS and CRT securities are valued using various market data points as described above, which management considers directly or indirectly observable parameters. Accordingly, these securities are classified as Level 2 in the fair value hierarchy.

Term Notes Backed by MSR Related Collateral

The Company's valuation process for term notes backed by MSR related collateral considers a number of factors, including a comparable bond analysis performed by a third-party pricing service which involves determining a pricing spread at issuance of the term note. The pricing spread is used at each subsequent valuation date to determine an implied yield to maturity of the term note, which is used to derive an indicative market value for the security. This indicative market value is further reviewed by the Company and may be adjusted to ensure it reflects a realistic exit price at the valuation date given the structural features of these securities. At June 30, 2018, the indicative implied yields used in the valuation of these securities ranged from 5.6% to 6.8%. The weighted average indicative yield to maturity was 5.96%. Other factors taken into consideration include indicative values provided by repurchase agreement counterparties, estimated changes in fair value of the related underlying MSR collateral and the financial performance of the ultimate parent or sponsoring entity of the issuer, which has provided a guarantee that is intended to provide for payment of interest and principal to the holders of the term notes should cash flows generated by the



related underlying MSR collateral be insufficient. As this process includes significant unobservable inputs, these securities are classified as Level 3 in the fair value hierarchy.

#### Residential Whole Loans, at Fair Value

The Company determines the fair value of its residential whole loans held at fair value after considering valuations obtained from a third-party that specializes in providing valuations of residential mortgage loans trading activity observed in the marketplace. The Company's residential whole loans held at fair value are classified as Level 3 in the fair value hierarchy.

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MFA FINANCIAL, INC.

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Swaps

All of the Company's Swaps are cleared by a central clearing house. Valuations provided by the clearing house are used for purposes of determining the fair value of the Company's Swaps. Such valuations obtained are tested with internally developed models that apply readily observable market parameters. As the Company's Swaps are subject to the clearing house's margin requirements, no credit valuation adjustment was considered necessary in determining the fair value of such instruments. Beginning in January 2017, variation margin payments on the Company's cleared Swaps are treated as a legal settlement of the exposure under the Swap contract. Previously such payments were treated as collateral pledged against the exposure under the Swap contract. The effect of this change is to reduce what would have otherwise been reported as fair value of the Swap. Swaps are classified as Level 2 in the fair value hierarchy.

Changes to the valuation methodologies used with respect to the Company's financial instruments are reviewed by management to ensure any such changes result in appropriate exit price valuations. The Company will refine its valuation methodologies as markets and products develop and pricing methodologies evolve. The methods described above may produce fair value estimates that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Company believes its valuation methods are appropriate and consistent with those used by market participants, the use of 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. The Company reviews the classification of its financial instruments within the fair value hierarchy on a quarterly basis, and management may conclude that its financial instruments should be reclassified to a different level in the future.

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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

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The following tables present the Company's financial instruments carried at fair value on a recurring basis as of June 30, 2018 and December 31, 2017, on the consolidated balance sheets by the valuation hierarchy, as previously described:

## Fair Value at June 30, 2018

(In Thousands)	Level 1	Level 2	Level 3	Total
Assets:				
Agency MBS	\$—	\$2,362,897	\$—	\$2,362,897
Non-Agency MBS	—	3,242,967	—	3,242,967
CRT securities	—	571,955	—	571,955
Term notes backed by MSR related collateral	—	—	381,390	381,390
Residential whole loans, at fair value	—	—	1,502,986	1,502,986
Securities obtained and pledged as collateral	253,721	—	—	253,721
Swaps	—	11,183	—	11,183
Total assets carried at fair value	\$253,721	\$6,189,002	\$1,884,376	\$8,327,099
Liabilities:				
Obligation to return securities obtained as collateral	\$253,721	\$—	\$—	\$253,721
Total liabilities carried at fair value	\$253,721	\$—	\$—	\$253,721

## Fair Value at December 31, 2017

(In Thousands)	Level 1	Level 2	Level 3	Total
Assets:				
Agency MBS	\$—	\$2,824,681	\$—	\$2,824,681
Non-Agency MBS	—	3,533,966	—	3,533,966
CRT securities	—	664,403	—	664,403
Term notes backed by MSR related collateral	—	—	381,804	381,804
Residential whole loans, at fair value	—	—	1,325,115	1,325,115
Securities obtained and pledged as collateral	504,062	—	—	504,062
Swaps	—	679	—	679
Total assets carried at fair value	\$504,062	\$7,023,729	\$1,706,919	\$9,234,710
Liabilities:				
Obligation to return securities obtained as collateral	\$504,062	\$—	\$—	\$504,062
Total liabilities carried at fair value	\$504,062	\$—	\$—	\$504,062

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MFA FINANCIAL, INC.

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## Changes in Level 3 Assets Measured at Fair Value on a Recurring Basis

The following table presents additional information for the three and six months ended June 30, 2018 and 2017 about the Company's Residential whole loans, at fair value, which are classified as Level 3 and measured at fair value on a recurring basis:

(In Thousands)	Residential Whole Loans, at Fair Value (1)			
	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Balance at beginning of period	\$1,555,619	\$775,152	\$1,325,115	\$814,682
Purchases and capitalized advances	6,175	4,831	317,300	10,164
Changes in fair value recorded in Net gain on residential whole loans held at fair value	4,599	4,262	18,346	7,209
Collection of principal, net of liquidation gains/losses	(54,184 )	(15,652 )	(100,868 )	(35,695 )
Repurchases	(867 )	(450 )	(1,061 )	(756 )
Transfer to REO	(42,802 )	(24,071 )	(90,292 )	(51,532 )
Balance at end of period	\$1,468,540	\$744,072	\$1,468,540	\$744,072

(1) Excludes approximately \$34.4 million and \$239.2 million of residential whole loans held at fair value for which the closing of the purchase transaction had not occurred as of June 30, 2018 and 2017, respectively.

The following table presents additional information for the three and six months ended June 30, 2018 and 2017 about the Company's investments in term notes backed by MSR related collateral held at fair value, which are classified as Level 3 and measured at fair value on a recurring basis:

(In Thousands)	Term Notes Backed by MSR Related Collateral			
	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017 (1)
Balance at beginning of period	\$332,040	\$282,332	\$381,804	\$—
Purchases	49,350	—	149,350	150,000
Collection of principal	—	(8,371 )	(150,000 )	(17,019 )
Changes in unrealized gain/losses	—	—	236	—
Transfers from Level 2 to Level 3 (1)	—	—	—	140,980
Balance at end of period	\$381,390	\$273,961	\$381,390	\$273,961

(1) Investments in term notes backed by MSR related collateral were transferred from Level 2 to Level 3 during the six months ended June 30, 2017 as there had been very limited secondary market trading in these securities since issuance. Transfers between levels are deemed to take place on the first day of the reporting period in which the transfer has taken place.

The Company did not transfer any assets or liabilities from one level to another during the three and six months ended June 30, 2018 and the three months ended June 30, 2017.



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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

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## Fair Value Methodology for Level 3 Financial Instruments

## Residential Whole Loans, at Fair Value

The following tables present a summary of quantitative information about the significant unobservable inputs used in the fair value measurement of the Company's residential whole loans held at fair value for which it has utilized Level 3 inputs to determine fair value as of June 30, 2018 and December 31, 2017:

(Dollars in Thousands)	June 30, 2018		Unobservable Input	Weighted		Range		
	Fair Value (1)	Valuation Technique		Average (2)				
Residential whole loans, at fair value	\$ 673,765	Discounted cash flow	Discount rate	5.5	%	4.5-8.2%		
			Prepayment rate	3.9	%	0.9-13.5%		
			Default rate	2.5	%	0.0-20.8%		
			Loss severity	13.0	%	0.0-100.0%		
	\$ 794,715	Liquidation model	Discount rate	8.2	%	6.1-50.0%		
			Annual change in home prices	3.1	%	(0.6)-11.2%		
			Liquidation timeline (in years)	1.8		0.1-4.5		
			Current value of underlying properties (3)	\$ 829		\$1-\$12,400		
			Total	\$ 1,468,480				
(Dollars in Thousands)	December 31, 2017		Unobservable Input	Weighted		Range		
	Fair Value (1)	Valuation Technique		Average (2)				
Residential whole loans, at fair value	\$ 358,871	Discounted cash flow	Discount rate	5.5	%	4.5-13.0%		
			Prepayment rate	4.1	%	1.15-15.1%		
			Default rate	2.9	%	0.0-6.5%		
			Loss severity	13.8	%	0.0-100.0%		
	\$ 592,940	Liquidation model	Discount rate	8.0	%	6.1-50.0%		
			Annual change in home prices	2.5	%	(8.0)-8.8%		
			Liquidation timeline (in years)	1.6		0.1-4.5		
				\$ 772		\$0-\$9,900		

Current value of underlying  
properties (3)

Total \$951,811

(1) Excludes approximately \$34.5 million and \$373.3 million of loans for which management considers the purchase price continues to reflect the fair value of such loans at June 30, 2018 and December 31, 2017, respectively.

(2) Amounts are weighted based on the fair value of the underlying loan.

(3) The simple average value of the properties underlying residential whole loans held at fair value valued via a liquidation model was approximately \$384,000 and \$336,000 as of June 30, 2018 and December 31, 2017, respectively.

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The following table presents the carrying values and estimated fair values of the Company's financial instruments at June 30, 2018 and December 31, 2017:

(In Thousands)	June 30, 2018		December 31, 2017	
	Carrying Value	Estimated Fair Value	Carrying Value	Estimated Fair Value
<b>Financial Assets:</b>				
Agency MBS	\$2,362,897	\$2,362,897	\$2,824,681	\$2,824,681
Non-Agency MBS	3,242,967	3,242,967	3,533,966	3,533,966
CRT securities	571,955	571,955	664,403	664,403
MSR related assets	381,390	381,390	492,080	493,026
Residential whole loans, at carrying value	1,906,242	1,987,218	908,516	988,688
Residential whole loans, at fair value	1,502,986	1,502,986	1,325,115	1,325,115
Securities obtained and pledged as collateral	253,721	253,721	504,062	504,062
Cash and cash equivalents	54,880	54,880	449,757	449,757
Restricted cash	3,298	3,298	13,307	13,307
Swaps	11,183	11,183	679	679
<b>Financial Liabilities (1):</b>				
Repurchase agreements	5,892,228	5,900,049	6,614,701	6,623,255
Securitized debt	518,655	518,659	363,944	366,109
Obligation to return securities obtained as collateral	253,721	253,721	504,062	504,062
Senior Notes	96,794	102,231	96,773	103,729

(1) Carrying value of securitized debt, Senior Notes and certain repurchase agreements is net of associated debt issuance costs.

In addition to the methodologies used to determine the fair value of the Company's financial assets and liabilities reported at fair value on a recurring basis discussed on pages 43-48, the following methods and assumptions were used by the Company in arriving at the fair value of the Company's other financial instruments presented in the above table that are not reported at fair value on a recurring basis:

**Residential Whole Loans, at Carrying Value:** The Company generally determines the fair value of its residential whole loans held at carrying value after considering portfolio valuations obtained from a third-party who specializes in providing valuations of residential mortgage loans and trading activity observed in the market place. Given the short duration of the Company's Rehabilitation loans, these investments are determined to have a carrying value which approximates fair value. The Company's residential whole loans held at carrying value are classified as Level 3 in the fair value hierarchy.

**Cash and Cash Equivalents and Restricted Cash:** Cash and cash equivalents and restricted cash are comprised of cash held in overnight money market investments and demand deposit accounts. At June 30, 2018 and December 31, 2017, the Company's money market funds were invested in securities issued by the U.S. Government or its agencies, instrumentalities, and sponsored entities, and repurchase agreements involving the securities described above. Given the overnight term and assessed credit risk, the Company's investments in money market funds are determined to have a fair value equal to their carrying value.



Corporate Loan: The Corporate loan was repaid during the three months ended June 30, 2018. The Company had determined the fair value of this loan at December 31, 2017 after considering recent past and expected future loan performance, recent financial performance of the borrower and estimates of the current value of the underlying collateral which included certain MSRs and other assets of the borrower that had been pledged to secure the borrowing. The Company's investment in this term loan was classified as Level 3 in the fair value hierarchy.

Repurchase Agreements: The fair value of repurchase agreements reflects the present value of the contractual cash flows discounted at market interest rates at the valuation date for repurchase agreements with a term equivalent to the remaining term

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to interest rate repricing, which may be at maturity. Such interest rates are estimated based on LIBOR rates observed in the market. The Company's repurchase agreements are classified as Level 2 in the fair value hierarchy.

**Securitized Debt:** In determining the fair value of securitized debt, management considers a number of observable market data points, including prices obtained from pricing services and brokers as well as dialogue with market participants. Accordingly, the Company's securitized debt is classified as Level 2 in the fair value hierarchy.

**Senior Notes:** The fair value of the Senior Notes is determined using the end of day market price quoted on the NYSE at the reporting date. The Company's Senior Notes are classified as Level 1 in the fair value hierarchy.

The Company holds REO at the lower of the current carrying amount or fair value less estimated selling costs. At June 30, 2018 and December 31, 2017, the Company's REO had an aggregate carrying value of \$192.2 million and \$152.4 million, and an aggregate estimated fair value of \$214.8 million and \$175.8 million, respectively. The Company classifies fair value measurements of REO as Level 3 in the fair value hierarchy.

#### 15. Use of Special Purpose Entities and Variable Interest Entities

A Special Purpose Entity ("SPE") is an entity designed to fulfill a specific limited need of the company that organized it. SPEs are often used to facilitate transactions that involve securitizing financial assets or resecuritizing previously securitized financial assets. The objective of such transactions may include obtaining non-recourse financing, obtaining liquidity or refinancing the underlying financial assets on improved terms. Securitization involves transferring assets to a SPE to convert all or a portion of those assets into cash before they would have been realized in the normal course of business, through the SPE's issuance of debt or equity instruments. Investors in an SPE usually have recourse only to the assets in the SPE and, depending on the overall structure of the transaction, may benefit from various forms of credit enhancement such as over-collateralization in the form of excess assets in the SPE, priority with respect to receipt of cash flows relative to holders of other debt or equity instruments issued by the SPE, or a line of credit or other form of liquidity agreement that is designed with the objective of ensuring that investors receive principal and/or interest cash flow on the investment in accordance with the terms of their investment agreement.

The Company has entered into several financing transactions that resulted in the Company consolidating as VIEs the SPEs that were created to facilitate these transactions. See Note 2(r) for a discussion of the accounting policies applied to the consolidation of VIEs and transfers of financial assets in connection with financing transactions.

The Company has engaged in loan securitizations and in prior years, MBS resecuritization transactions, primarily for the purpose of obtaining improved overall financing terms as well as non-recourse financing on a portion of its residential whole loan and Non-Agency MBS portfolios. Notwithstanding the Company's participation in these transactions, the risks facing the Company are largely unchanged as the Company remains economically exposed to the first loss position on the underlying assets transferred to the VIEs.

#### Loan Securitization Transactions

In May 2018, as part of a loan securitization transaction, the Company sold residential whole loans with an aggregate unpaid principal balance of \$319.1 million to an entity that the Company consolidates as a VIE. In connection with the transaction, third-party investors purchased \$184.0 million face amount of senior bonds ("Senior Bonds") with a coupon rate of 3.875%. As a result of this transaction, the Company acquired \$46.4 million face amount of non-rated

certificates issued by the securitization vehicle, and received \$184.0 million in cash, excluding expenses, accrued interest, and underwriting fees.

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MFA FINANCIAL, INC.

NOTES TO THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS

JUNE 30, 2018

The following table summarizes the key details of the loan securitization transactions the Company has been involved in to date:

(Dollars in Thousands)	June 30, 2018	December 31, 2017
Aggregate unpaid principal balance of residential whole loans sold	\$942,285	\$620,924
Face amount of Senior Bonds issued by the VIE and purchased by third-party investors	\$566,817	\$382,847
Outstanding amount of Senior Bonds	\$518,655	(1)\$363,944 (1)
Weighted average fixed rate for Senior Bonds issued	3.40	%(2)3.14 %(2)
Face amount of Senior Support Certificates received by the Company (3)	\$173,431	\$127,001
Cash received	\$566,815	\$382,845

(1) Net of \$2.9 million and \$2.3 million of deferred financing costs at June 30, 2018 and December 31, 2017, respectively.

At June 30, 2018 and December 31, 2017, \$399.6 million and \$233.7 million, respectively, of Senior Bonds sold in securitization transactions contained a contractual coupon step-up feature whereby the coupon increases by 300 basis points at 36 months from issuance if the bond is not redeemed before such date.

(3) Provides credit support to the Senior Bonds sold to third-party investors in the securitization transactions.

As of June 30, 2018 and December 31, 2017, as a result of the transactions described above, securitized loans with a carrying value of approximately \$199.8 million and \$183.2 million are included in “Residential whole loans, at carrying value,” securitized loans with a fair value of approximately \$476.2 million and \$289.3 million are included in “Residential whole loans, at fair value,” and REO with a carrying value approximately \$33.4 million and \$5.5 million are included in “Other assets” on the Company’s consolidated balance sheets, respectively. As of June 30, 2018 and December 31, 2017, the aggregate carrying value of Senior Bonds issued by consolidated VIEs was \$518.7 million and \$363.9 million, respectively. These Senior Bonds are disclosed as “Securitized debt” and are included in Other liabilities on the Company’s consolidated balance sheets. The holders of the securitized debt have no recourse to the general credit of the Company, but the Company does have the obligation, under certain circumstances to repurchase assets from the VIE upon the breach of certain representations and warranties with respect to the residential whole loans sold to the VIE. In the absence of such a breach, the Company has no obligation to provide any other explicit or implicit support to any VIE.

The Company concluded that the entities created to facilitate the loan securitization transactions are VIEs. The Company then completed an analysis of whether each VIE created to facilitate the securitization transactions should be consolidated by the Company, based on consideration of its involvement in each VIE, including the design and purpose of the SPE, and whether its involvement reflected a controlling financial interest that resulted in the Company being deemed the primary beneficiary of each VIE. In determining whether the Company would be considered the primary beneficiary, the following factors were assessed:

- whether the Company has both the power to direct the activities that most significantly impact the economic performance of the VIE; and
- whether the Company has a right to receive benefits or absorb losses of the entity that could be potentially significant to the VIE.

Based on its evaluation of the factors discussed above, including its involvement in the purpose and design of the entity, the Company determined that it was required to consolidate each VIE created to facilitate the loan

securitization transactions.

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Residential Whole Loans and REO (including Residential Whole Loans and REO transferred to consolidated VIEs)

Included on the Company's consolidated balance sheets as of June 30, 2018 and December 31, 2017 are a total of \$3.4 billion and \$2.2 billion of residential whole loans, of which approximately \$1.9 billion and \$908.5 million are reported at carrying value and \$1.5 billion and \$1.3 billion are reported at fair value, respectively. In addition, at June 30, 2018 and December 31, 2017, the Company had REO with an aggregate carrying value of \$192.2 million and \$152.4 million, and an aggregate estimated fair value of \$214.8 million and \$175.8 million, respectively. The inclusion of these assets arises from the Company's interests in certain trusts established to acquire the loans and entities established in connection with its loan securitization transactions. The Company has assessed that these entities are required to be consolidated. During the three and six months ended June 30, 2018, the Company recognized interest income from residential whole loans reported at carrying value of approximately \$17.9 million and \$32.3 million, respectively. During the three and six months ended June 30, 2017, the Company recognized interest income from residential whole loans reported at carrying value of approximately \$8.5 million and \$17.2 million, respectively. These amounts are included in Interest Income on the Company's consolidated statements of operations. In addition, the Company recognized net gains on residential whole loans held at fair value during the three and six months ended June 30, 2018 of approximately \$32.4 million and \$70.9 million, respectively. During the three and six months ended June 30, 2017, the Company recognized net gains on residential whole loans held at fair value \$16.2 million and \$30.0 million, respectively. These amounts are included in Other Income, net on the Company's consolidated statements of operations. (See Note 4)

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

In this Quarterly Report on Form 10-Q, we refer to MFA Financial, Inc. and its subsidiaries as "the Company," "MFA," "we," "us," or "our," unless we specifically state otherwise or the context otherwise indicates.

The following discussion should be read in conjunction with our financial statements and accompanying notes included in Item 1 of this Quarterly Report on Form 10-Q as well as our Annual Report on Form 10-K for the year ended December 31, 2017.

Forward Looking Statements

When used in this Quarterly Report on Form 10-Q, in future filings with the SEC or in press releases or other written or oral communications, statements which are not historical in nature, including those containing words such as "will," "believe," "expect," "anticipate," "estimate," "plan," "continue," "intend," "should," "could," "would," "may" the negative of similar expressions, are intended to identify "forward-looking statements" within the meaning of Section 27A of the 1933 Act and Section 21E of the 1934 Act and, as such, may involve known and unknown risks, uncertainties and assumptions.

These forward-looking statements include information about possible or assumed future results with respect to our business, financial condition, liquidity, results of operations, plans and objectives. Statements regarding the following subjects, among others, may be forward-looking: changes in interest rates and the market (i.e., fair) value of our MBS, residential whole loans, CRT securities and other assets; changes in the prepayment rates on the mortgage loans securing our MBS, an increase of which could result in a reduction of the yield on MBS in our portfolio and an increase of which could require us to reinvest the proceeds received by us as a result of such prepayments in MBS with lower coupons; credit risks underlying our assets, including changes in the default rates and management's assumptions regarding default rates on the mortgage loans securing our Non-Agency MBS and relating to our residential whole loan portfolio; our ability to borrow to finance our assets and the terms, including the cost, maturity and other terms, of any such borrowings; implementation of or changes in government regulations or programs affecting our business; our estimates regarding taxable income the actual amount of which is dependent on a number of factors, including, but not limited to, changes in the amount of interest income and financing costs, the method elected by us to accrete the market discount on Non-Agency MBS and residential whole loans and the extent of prepayments, realized losses and changes in the composition of our Agency MBS, Non-Agency MBS and residential whole loan portfolios that may occur during the applicable tax period, including gain or loss on any MBS disposals and whole loan modification foreclosure and liquidation; the timing and amount of distributions to stockholders, which are declared and paid at the discretion of our Board and will depend on, among other things, our taxable income, our financial results and overall financial condition and liquidity, maintenance of our REIT qualification and such other factors as the Board deems relevant; our ability to maintain our qualification 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 the Investment Company Act), including statements regarding the concept release issued by the SEC relating to interpretive issues under the Investment Company Act with respect to the status under the Investment Company Act of certain companies that are engaged in the business of acquiring mortgages and mortgage-related interests; our ability to successfully implement our strategy to grow our residential whole loan portfolio, which is dependent on, among other things, the supply of loans offered for sale in the market; expected returns on our investments in nonperforming loans (or NPLs), which are affected by, among other things, the length of time required to foreclose upon, sell, liquidate or otherwise reach a resolution of the property underlying the NPL, home price values, amounts advanced to carry the asset (e.g., taxes, insurance, maintenance expenses, etc. on the underlying property) and the amount ultimately realized upon resolution of the asset; risks associated with our investments in MSR related assets, including servicing, regulatory and economic risks, and risks associated with investing in real estate assets, including changes in business conditions and the general economy. These and other risks, uncertainties

and factors, including those described in the annual, quarterly and current reports that we file with the SEC, could cause our actual results to differ materially from those projected in any forward-looking statements we make. All forward-looking statements are based on beliefs, assumptions and expectations of our future performance, taking into account all information currently available. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date on which they are made. New risks and uncertainties arise over time and it is not possible 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.



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## Business/General

We are a REIT primarily engaged in the business of investing, on a leveraged basis, in residential mortgage assets, including Agency MBS, Non-Agency MBS, residential whole loans, CRT securities and MSR related assets. 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.

At June 30, 2018, we had total assets of approximately \$10.6 billion, of which \$5.6 billion, or 52.7%, represented our MBS portfolio. At such date, our MBS portfolio was comprised of \$2.4 billion of Agency MBS and \$3.2 billion of Non-Agency MBS, which includes \$2.3 billion of Legacy Non-Agency MBS and \$907.9 million of RPL/NPL MBS that are primarily structured with a contractual coupon step-up feature where the coupon increases up to 300 basis points at 36 months from issuance or sooner. These RPL/NPL MBS are primarily backed by securitized re-performing and non-performing loans. In addition, at June 30, 2018, we had approximately \$3.4 billion in residential whole loans acquired through interests in certain trusts established to acquire the loans, which represented approximately 32.0% of our total assets. During the second quarter of 2018 we again experienced the most growth in residential whole loans. In addition to re-performing and non-performing loans, during 2018 we have purchased or committed to purchase loans that are not considered credit impaired. To date such loans, which as of June 30, 2018 comprise approximately one-third of our residential whole loans, have included newly or previously originated performing loans that are primarily comprised of: (i) loans to finance (or refinance) one-to-four family residential properties and are not considered to meet the definition of a “Qualified Mortgage” in accordance with guidelines adopted by the Consumer Financial Protection Bureau (or Non-QM loans), (ii) short-term business purpose loans collateralized by residential properties made to non-occupant borrowers who intend to rehabilitate and sell the property for a profit (or Rehabilitation loans or Fix and Flip loans), (iii) loans to finance (or refinance) non-owner occupied one-to-four family residential properties that are rented to one or more tenants (or Single-family rental loans), and (iv) previously originated loans secured by residential real estate that is generally owner occupied (or Seasoned performing loans). Our remaining investment-related assets were primarily comprised of CRT securities, MSR related assets, collateral obtained in connection with reverse repurchase agreements, cash and cash equivalents (including restricted cash), REO and MBS and loan-related receivables.

The results of our business operations are affected by a number of factors, many of which are beyond our control, and primarily depend on, among other things, the level of our net interest income, the market value of our assets, which is driven by numerous factors, including the supply and demand for residential mortgage assets in the marketplace, the terms and availability of adequate financing, general economic and real estate conditions (both on a national and local level), the impact of government actions in the real estate and mortgage sector, and the credit performance of our credit sensitive residential mortgage assets. In recent periods, the impact on our results from changes in market values of certain assets for which we have elected the fair value option, such as certain residential whole loans and CRT securities, has increased. Our net interest income varies primarily as a result of changes in interest rates, the slope of the yield curve (i.e., the differential between long-term and short-term interest rates), borrowing costs (i.e., our interest expense) and prepayment speeds on our MBS, the behavior of which involves various risks and uncertainties. Interest rates and conditional prepayment rates (or CPRs) (which measure the amount of unscheduled principal prepayment on a bond as a percentage of the bond balance), vary according to the type of investment, conditions in the financial markets, competition and other factors, none of which can be predicted with any certainty.

With respect to our business operations, increases in interest rates, in general, may over time cause: (i) the interest expense associated with our borrowings to increase; (ii) the value of our residential mortgage assets and, correspondingly, our stockholders’ equity to decline; (iii) coupons on our adjustable rate assets to reset, on a delayed basis, to higher interest rates; (iv) prepayments on our assets to decline, thereby slowing the amortization of purchase premiums and the accretion of our purchase discounts; and (v) the value of our derivative hedging instruments and,

correspondingly, our stockholders' equity to increase. Conversely, decreases in interest rates, in general, may over time cause: (i) the interest expense associated with our borrowings to decrease; (ii) the value of our residential mortgage assets and, correspondingly, our stockholders' equity to increase; (iii) coupons on our adjustable rate assets to reset, on a delayed basis, to lower interest rates; (iv) prepayments on assets to increase, thereby accelerating the amortization of purchase premiums and the accretion of our purchase discounts; and (v) the value of our derivative hedging instruments and, correspondingly, our stockholders' equity to decrease. In addition, our borrowing costs and credit lines are further affected by the type of collateral we pledge and general conditions in the credit market.

Our investments in residential mortgage assets expose us to credit risk, generally meaning that we are subject to credit losses due to the risk of delinquency, default and foreclosure on the underlying real estate collateral. We believe the discounted purchase prices paid on certain of these investments mitigate our risk of loss in the event that, as we expect on most such investments, we receive less than 100% of the par value of these investments. Our investment process for credit sensitive assets focuses primarily on quantifying and pricing credit risk.

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Premiums arise when we acquire an MBS or loan at a price in excess of the aggregate principal balance of the mortgages securing the MBS (i.e., par value) or when we acquire residential whole loans at a price in excess of their aggregate principal balance. Conversely, discounts arise when we acquire an MBS or loan at a price below the aggregate principal balance of the mortgages securing the MBS or when we acquire residential whole loans at a price below their aggregate principal balance. Premiums paid are amortized against interest income and accretable purchase discounts on these investments are accreted to interest income. Purchase premiums, which are primarily carried on our Agency MBS, certain CRT securities and Non-QM loans, are amortized against interest income over the life of the investment using the effective yield method, adjusted for actual prepayment activity. An increase in the prepayment rate, as measured by the CPR, will typically accelerate the amortization of purchase premiums, thereby reducing the interest income earned on these assets.

CPR levels are impacted by, among other things, conditions in the housing market, new regulations, government and private sector initiatives, interest rates, availability of credit to home borrowers, underwriting standards and the economy in general. In particular, CPR reflects the conditional repayment rate (or CRR), which measures voluntary prepayments of mortgages collateralizing a particular MBS, and the conditional default rate (or CDR), which measures involuntary prepayments resulting from defaults. CPRs on Agency MBS and Legacy Non-Agency MBS may differ significantly. For the three months ended June 30, 2018, our Agency MBS portfolio experienced a weighted average CPR of 16.2%, and our Legacy Non-Agency MBS portfolio experienced a weighted average CPR of 15.8%. Over the last consecutive eight quarters, ending with June 30, 2018, the monthly weighted average CPR on our Agency and Legacy Non-Agency MBS portfolios ranged from a high of 18.4% experienced during the month ended July 31, 2017 to a low of 13.5%, experienced during the month ended March 31, 2018, with an average CPR over such quarters of 16.1%.

Our method of accounting for Non-Agency MBS purchased at significant discounts to par value requires us to make assumptions with respect to each security. These assumptions include, but are not limited to, future interest rates, voluntary prepayment rates, default rates, mortgage modifications and loss severities. As part of our Non-Agency MBS surveillance process, we track and compare each security's actual performance over time to the performance expected at the time of purchase or, if we have modified our original purchase assumptions, to our revised performance expectations. To the extent that actual performance or our expectation of future performance of our Non-Agency MBS deviates materially from our expected performance parameters, we may revise our performance expectations, such that the amount of purchase discount designated as credit discount may be increased or decreased over time. Nevertheless, credit losses greater than those anticipated or in excess of the recorded purchase discount could occur, which could materially adversely impact our operating results.

It is our business strategy to hold our residential mortgage assets as long-term investments. On at least a quarterly basis, excluding investments for which the fair value option has been elected or for which specialized loan accounting is otherwise applied, we assess our ability and intent to continue to hold each asset and, as part of this process, we monitor our MBS, CRT securities and MSR related assets that are designated as AFS for OTTI. A change in our ability and/or intent to continue to hold any of these securities that are in an unrealized loss position, or a deterioration in the underlying characteristics of these securities, could result in our recognizing future impairment charges or a loss upon the sale of any such security. At June 30, 2018, we had net unrealized gains on our Non-Agency MBS of \$577.2 million, comprised of gross unrealized gains of \$578.5 million and gross unrealized losses of \$1.3 million, and net unrealized losses of \$35.7 million on our Agency MBS, comprised of gross unrealized losses of \$54.6 million and gross unrealized gains of \$18.9 million. At June 30, 2018, we did not intend to sell any securities in our portfolio that are designated as AFS and that were in an unrealized loss position, and we believe it is more likely than not that we will not be required to sell those securities before recovery of their amortized cost basis, which may be at their maturity.

We rely primarily on borrowings under repurchase agreements to finance our residential mortgage assets. Our residential mortgage investments have longer-term contractual maturities than our borrowings under repurchase agreements. Even though the majority of our investments have interest rates that adjust over time based on short-term changes in corresponding interest rate indices (typically following an initial fixed-rate period for our Hybrids), the interest rates we pay on our borrowings will typically change at a faster pace than the interest rates we earn on our investments. In order to reduce this interest rate risk exposure, we may enter into derivative instruments, which at June 30, 2018 were comprised of Swaps.

Our Swap derivative instruments are designated as cash-flow hedges against a portion of our current and forecasted LIBOR-based repurchase agreements. Our Swaps do not extend the maturities of our repurchase agreements; they do, however, lock in a fixed rate of interest over their term for the notional amount of the Swap corresponding to the hedged item.

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## Recent Market Conditions and Our Strategy

At June 30, 2018, our residential mortgage asset portfolio, which includes MBS, residential whole loans and REO, CRT securities and MSR related assets was approximately \$10.2 billion compared to \$10.0 billion at March 31, 2018. We will continue to seek investments in residential mortgage assets during 2018, with our investment focus primarily on residential whole loans, as well as RPL/NPL MBS and MSR related assets as market opportunities arise.

The following table presents the activity for our residential mortgage asset portfolio for the three months ended June 30, 2018:

(In Millions)	March 31, 2018	Runoff (1)	Acquisitions	Other (2)	June 30, 2018	Change
Residential whole loans and REO	\$ 2,838	\$(155)	\$ 898	\$20	\$3,601	\$ 763
RPL/NPL MBS	935	(166 )	141	(1 )	909	(26 )
MSR related assets	455	(124 )	49	1	381	(74 )
CRT securities	679	(4 )	—	(104 )	571	(108 )
Legacy Non-Agency MBS	2,463	(135 )	—	7	2,335	(128 )
Agency MBS	2,647	(193 )	—	(91 )	2,363	(284 )
Totals	\$ 10,017	\$(777)	\$ 1,088	\$(168)	\$10,160	\$ 143

(1) Primarily includes principal repayments, cash collections on purchased credit impaired loans and sales of REO.

(2) Primarily includes sales, changes in fair value, net premium amortization/discount accretion and adjustments to record lower of cost or estimated fair value adjustments on REO. During the three months ended June 30, 2018, we sold certain Agency MBS for \$75.3 million, realizing gross losses of \$3.8 million and sold certain CRT securities for \$104.0 million, realizing gross gains of \$11.2 million.

At June 30, 2018, our total recorded investment in residential whole loans and REO was \$3.6 billion, or 35.4% of our residential mortgage asset portfolio. Of this amount, (i) \$1.9 billion is presented as Residential whole loans, at carrying value, (of which \$804.8 million were purchased credit impaired loans and \$1.1 billion were other loans held at carrying value), and (ii) \$1.5 billion as Residential whole loans, at fair value, in our consolidated balance sheets. For the three months ended June 30, 2018, we recognized approximately \$17.9 million of income on residential whole loans held at carrying value in Interest Income on our consolidated statements of operations, representing an effective yield of 5.84% (excluding servicing costs). In addition, we recorded a net gain on residential whole loans held at fair value of \$32.4 million in Other Income, net in our consolidated statements of operations for the three months ended June 30, 2018. At June 30, 2018 and March 31, 2018, we had REO with an aggregate carrying value of \$192.2 million and \$182.9 million, respectively, which is included in Other assets on our consolidated balance sheets.

At the end of the second quarter of 2018, the average coupon on mortgages underlying our Agency MBS was higher compared to the end of the second quarter of 2017, due to upward resets on securities within the portfolio and the impact of the removal from the portfolio of Agency MBS sold during the quarter. As a result, the coupon yield on our Agency MBS portfolio increased to 3.09% for the three months ended June 30, 2018, from 2.94% for the three months ended June 30, 2017, and the net Agency MBS yield increased to 2.03% for the three months ended June 30, 2018 from 1.96% for the three months ended June 30, 2017. The net yield for our Legacy Non-Agency MBS portfolio was 9.89% for the three months ended June 30, 2018 compared to 8.85% for the three months ended June 30, 2017. The increase in the net yield on our Legacy Non-Agency MBS portfolio reflects the improved performance of loans underlying the Legacy Non-Agency MBS portfolio, which has resulted in credit reserve releases and changes in interest rates since the second quarter of the prior year and the impact of the cash proceeds received during the second quarter of 2018 in connection with the settlement of litigation related to certain residential mortgage backed securitization trusts that were sponsored by JP Morgan Chase & Co. and affiliated entities. The net yield for our RPL/NPL MBS portfolio was 4.52% for the three months ended June 30, 2018 compared to 4.18% for the three

months ended June 30, 2017. The increase in the net yield reflects an increase in the average coupon yield to 4.49% for the three months ended June 30, 2018 from 4.03% for the three months ended June 30, 2017.

We believe that our \$553.6 million Credit Reserve and OTTI appropriately factors in remaining uncertainties regarding underlying mortgage performance and the potential impact on future cash flows for our existing Legacy Non-Agency MBS portfolio. In addition, while the majority of our Legacy Non-Agency MBS will not return their full face value due to loan defaults, we believe that they will deliver attractive loss adjusted yields due to our discounted amortized cost of 70% of face value at June 30, 2018. Home price appreciation and underlying mortgage loan amortization have decreased the LTV for many of the mortgages underlying our Legacy Non-Agency portfolio. Home price appreciation during the past few years has generally been driven by a combination of limited housing supply due partly to low levels of new home construction, low mortgage rates and demographic-driven U.S. household formation. Lower LTVs lessen the likelihood of defaults and simultaneously decrease loss severities. Further,

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during 2017 and the six months ended June 30, 2018, we have also observed faster voluntary prepayment (i.e., prepayment of loans in full with no loss) speeds than originally projected. The yields on our Legacy Non-Agency MBS that were purchased at a discount are generally positively impacted if prepayment rates on these securities exceed our prepayment assumptions. Based on these current conditions, we have reduced estimated future losses within our Legacy Non-Agency portfolio. As a result, during the three months ended June 30, 2018, \$8.0 million was transferred from Credit Reserve to accretable discount. This increase in accretable discount is expected to increase the interest income realized over the remaining life of our Legacy Non-Agency MBS. We believe that the majority of the impact on interest income from the reduction in Credit Reserve will occur over the next ten years.

Our book value per common share was \$7.54 as of June 30, 2018, a decline from book value per common share of \$7.62 as of March 31, 2018. This decrease was primarily due to the impact of dividend distributions which exceeded net income for the quarter and the impact of fair value changes of Legacy Non-Agency MBS and Agency MBS, which was partially offset by an increase in the fair value of Swaps.

Repurchase agreement funding for our residential mortgage investments continued to be available to us from multiple counterparties during the second quarter of 2018. Typically, repurchase agreement funding involving credit-sensitive investments is available at terms requiring higher collateralization and higher interest rates than for repurchase agreement funding involving Agency MBS. At June 30, 2018, our debt consisted of borrowings under repurchase agreements with 26 counterparties, securitized debt, Senior Notes outstanding, an obligation to return securities obtained as collateral and payable for unsettled purchases, resulting in a debt-to-equity multiple of 2.3 times. (See table on page 74 under Results of Operations that presents our quarterly leverage multiples since June 30, 2017.)

In May 2018, as part of a loan securitization transaction, we sold residential whole loans with an aggregate unpaid principal balance of \$319.1 million to an entity that we consolidate as a VIE. In connection with the transaction, third-party investors purchased \$184.0 million face amount of senior bonds with a coupon rate of 3.875%. As a result of this transaction, we acquired \$46.4 million face amount of non-rated certificates issued by the securitization vehicle, and received \$184.0 million in cash, excluding expenses, accrued interest, and underwriting fees.

At June 30, 2018, we have access to various sources of liquidity which we estimate to be in excess of \$606.4 million. This amount includes (i) \$54.9 million of cash and cash equivalents; (ii) \$172.0 million in estimated financing available from unpledged Agency MBS and U.S. Treasury securities and from other Agency MBS collateral that is currently pledged in excess of contractual requirements; and (iii) \$379.5 million in estimated financing available from unpledged Non-Agency MBS and from other Non-Agency MBS and CRT collateral that is currently pledged in excess of contractual requirements. Our sources of liquidity do not include restricted cash. In addition, we have \$877.1 million of unencumbered residential whole loans. We are evaluating potential opportunities to finance these assets including loan securitization. With access to multiple sources of liquidity and potential financing opportunities for unencumbered residential whole loans, we believe that we are positioned to continue to take advantage of investment opportunities within the residential mortgage marketplace.

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## Information About Our Assets

The table below presents certain information about our asset allocation at June 30, 2018:

## ASSET ALLOCATION

	Agency MBS	Legacy Non-Agency MBS	RPL/NPL MBS (1)	Credit Risk Transfer Securities	MSR Related Assets	Residential Whole Loans, at Carrying Value (2)	Residential Whole Loans, at Fair Value	Other, net (3)	Total
(Dollars in Millions)									
Fair Value/Carrying Value	\$2,363	\$ 2,335	\$ 908	\$ 572	\$ 381	\$ 1,906	\$ 1,503	\$ 315	\$ 10,283
Less Payable for Unsettled Purchases	—	—	(61 )	—	—	(473 )	(34 )	—	(568 )
Less Repurchase Agreements	(2,112 )	(1,585 )	(499 )	(410 )	(297 )	(318 )	(671 )	—	(5,892 )
Less Securitized Debt	—	—	—	—	—	(167 )	(352 )	—	(519 )
Less Senior Notes	—	—	—	—	—	—	—	(97 )	(97 )
Net Equity Allocated	\$251	\$ 750	\$ 348	\$ 162	\$ 84	\$ 948	\$ 446	\$ 218	\$ 3,207
Debt/Net Equity Ratio (4)	8.4	x 2.1	x 1.6	x 2.5	x 3.5	x 1.0	x 2.4	x	2.3

RPL/NPL MBS are backed primarily by securitized re-performing and non-performing loans. The securities are (1) structured such that the coupon increases up to 300 basis points at 36 months from issuance or sooner. Included with the balance of Non-Agency MBS reported on our consolidated balance sheets.

Includes \$804.8 million of purchased credit impaired loans, \$626.9 million of Non-QM loans, \$162.7 million of (2) Rehabilitation loans, \$55.6 million of Single-family rental loans and \$256.2 million of Seasoned performing loans.

At June 30, 2018, the total fair value of these loans is estimated to be approximately \$2.0 billion.

(3) Includes cash and cash equivalents and restricted cash, other assets and other liabilities.

Represents the sum of borrowings under repurchase agreements, securitized debt and payable for unsettled

(4) purchases as a multiple of net equity allocated. The numerator of our Total Debt/Net Equity Ratio also includes the obligation to return securities obtained as collateral of \$253.7 million and Senior Notes.



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## Agency MBS

The following table presents certain information regarding the composition of our Agency MBS portfolio as of June 30, 2018 and December 31, 2017:

## June 30, 2018

(Dollars in Thousands)	Current Face	Weighted Average Purchase Price	Weighted Average Market Price	Fair Value (1)	Weighted Average Loan Age (Months) (2)	Weighted Average Coupon (2)	3 Month Average CPR
<b>15-Year Fixed Rate:</b>							
Low Loan Balance (3)	\$777,502	104.4 %	99.8 %	\$775,950	74	2.98 %	10.6 %
HARP (4)	80,054	104.8	99.8	79,886	72	2.95	9.0
Other (Post June 2009) (5)	70,992	104.0	102.8	72,974	93	4.14	9.4
Other (Pre June 2009) (6)	277	104.9	102.8	284	109	4.50	2.3
<b>Total 15-Year Fixed Rate</b>	<b>\$928,825</b>	<b>104.4 %</b>	<b>100.0 %</b>	<b>\$929,094</b>	<b>75</b>	<b>3.07 %</b>	<b>10.4 %</b>
<b>Hybrid:</b>							
Other (Post June 2009) (5)	\$893,055	104.4 %	103.4 %	\$923,058	84	3.30 %	20.4 %
Other (Pre June 2009) (6)	418,436	101.7	105.0	439,537	139	3.68	20.4
<b>Total Hybrid</b>	<b>\$1,311,491</b>	<b>103.5 %</b>	<b>103.9 %</b>	<b>\$1,362,595</b>	<b>102</b>	<b>3.42 %</b>	<b>20.4 %</b>
CMO/Other	\$68,097	102.5 %	102.8 %	\$70,030	204	3.55 %	17.7 %
<b>Total Portfolio</b>	<b>\$2,308,413</b>	<b>103.9 %</b>	<b>102.3 %</b>	<b>\$2,361,719</b>	<b>94</b>	<b>3.28 %</b>	<b>16.2 %</b>

## December 31, 2017

(Dollars in Thousands)	Current Face	Weighted Average Purchase Price	Weighted Average Market Price	Fair Value (1)	Weighted Average Loan Age (Months) (2)	Weighted Average Coupon (2)	3 Month Average CPR
<b>15-Year Fixed Rate:</b>							
Low Loan Balance (3)	\$948,225	104.3 %	101.7 %	\$964,373	67	2.95 %	10.3 %
HARP (4)	91,131	104.7	101.8	92,800	66	2.95	8.2
Other (Post June 2009) (5)	81,428	104.0	104.5	85,094	87	4.14	10.7
Other (Pre June 2009) (6)	303	104.9	104.4	316	103	4.50	2.0
<b>Total 15-Year Fixed Rate</b>	<b>\$1,121,087</b>	<b>104.3 %</b>	<b>101.9 %</b>	<b>\$1,142,583</b>	<b>68</b>	<b>3.04 %</b>	<b>10.2 %</b>
<b>Hybrid:</b>							
Other (Post June 2009) (5)	\$1,028,630	104.4 %	103.6 %	\$1,065,312	78	3.17 %	17.7 %
Other (Pre June 2009) (6)	511,801	101.7	104.7	535,795	132	3.44	16.0
<b>Total Hybrid</b>	<b>\$1,540,431</b>	<b>103.5 %</b>	<b>103.9 %</b>	<b>\$1,601,107</b>	<b>96</b>	<b>3.26 %</b>	<b>17.1 %</b>
CMO/Other	\$76,944	102.5 %	102.8 %	\$79,100	198	3.16 %	9.9 %
<b>Total Portfolio</b>	<b>\$2,738,462</b>	<b>103.8 %</b>	<b>103.1 %</b>	<b>\$2,822,790</b>	<b>88</b>	<b>3.16 %</b>	<b>14.1 %</b>

(1) Does not include principal payments receivable of \$1.2 million and \$1.9 million at June 30, 2018 and December 31, 2017, respectively.

(2) Weighted average is based on MBS current face at June 30, 2018 and December 31, 2017, respectively.

(3) Low loan balance represents MBS collateralized by mortgages with an original loan balance of less than or equal to \$175,000.

- (4) Home Affordable Refinance Program (or HARP) MBS are backed by refinanced loans with LTVs greater than or equal to 80% at origination.
- (5) MBS issued in June 2009 or later. Majority of underlying loans are ineligible to refinance through the HARP program.
- (6) MBS issued before June 2009.

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The following table presents certain information regarding our 15-year fixed-rate Agency MBS as of June 30, 2018 and December 31, 2017:

June 30, 2018

Coupon	Current Face	Weighted Average Purchase Price	Weighted Average Market Price	Fair Value (1)	Weighted Average Loan Age (Months) (2)	Weighted Average Loan Rate	Low Loan Balance and/or HARP (3)	3 Month Average CPR
(Dollars in Thousands)								
15-Year Fixed Rate:								
2.5%	\$449,162	104.1 %	98.3 %	\$441,567	67	3.02 %	100 %	9.7 %
3.0%	208,550	105.9	100.2	208,979	71	3.49	100	10.0
3.5%	4,401	103.5	101.6	4,470	92	4.17	100	21.7
4.0%	230,088	103.5	102.7	236,253	91	4.40	80	12.8
4.5%	36,624	105.2	103.3	37,825	95	4.89	33	14.5
Total 15-Year Fixed Rate	\$928,825	104.4 %	100.0 %	\$929,094	75	3.54 %	92 %	10.4 %

December 31, 2017

Coupon	Current Face	Weighted Average Purchase Price	Weighted Average Market Price	Fair Value (1)	Weighted Average Loan Age (Months) (2)	Weighted Average Loan Rate	Low Loan Balance and/or HARP (3)	3 Month Average CPR
(Dollars in Thousands)								
15-Year Fixed Rate:								
2.5%	\$579,003	104.0 %	100.5 %	\$581,866	60	3.04 %	100 %	9.3 %
3.0%	231,325	105.9	102.2	236,316	66	3.49	100	9.5
3.5%	5,402	103.5	103.4	5,587	86	4.18	100	23.0
4.0%	263,447	103.5	104.3	274,783	85	4.40	80	12.4
4.5%	41,910	105.2	105.1	44,031	89	4.88	34	10.2
Total 15-Year Fixed Rate	\$1,121,087	104.3 %	101.9 %	\$1,142,583	68	3.52 %	93 %	10.2 %

(1) Does not include principal payments receivable of \$1.2 million and \$1.9 million at June 30, 2018 and December 31, 2017, respectively.

(2) Weighted average is based on MBS current face at June 30, 2018 and December 31, 2017, respectively.

(3) Low Loan Balance represents MBS collateralized by mortgages with an original loan balance less than or equal to \$175,000. HARP MBS are backed by refinanced loans with LTVs greater than or equal to 80% at origination.

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The following table presents certain information regarding our Hybrid Agency MBS as of June 30, 2018 and December 31, 2017:

June 30, 2018

(Dollars in Thousands)	Current Face	Weighted Average Purchase Price	Weighted Average Market Price	Fair Value (1)	Weighted Average Coupon (2)	Weighted Average Loan Age (Months) (2)	Weighted Average Months to Reset (3)	Interest Only (4)	3 Month Average CPR
Hybrid Post June 2009:									
Agency 5/1	\$348,596	104.3 %	104.6 %	\$364,593	3.72 %	95	6	22 %	20.3 %
Agency 7/1	386,730	104.4	103.4	399,960	3.02	79	9	26	23.6
Agency 10/1	157,729	104.6	100.5	158,505	3.06	74	45	65	12.8
Total Hybrids Post June 2009	\$893,055	104.4 %	103.4 %	\$923,058	3.30 %	84	14	31 %	20.4 %
Hybrid Pre June 2009:									
Coupon < 4.5% (5)	\$417,633	101.7 %	105.0 %	\$438,688	3.67 %	139	5	— %	20.4 %
Coupon >= 4.5% (6)	803	100.8	105.7	849	4.62	133	10	—	0.2
Total Hybrids Pre June 2009	\$418,436	101.7 %	105.0 %	\$439,537	3.68 %	139	5	— %	20.4 %
Total Hybrids	\$1,311,491	103.5 %	103.9 %	\$1,362,595	3.42 %	102	11	21 %	20.4 %

December 31, 2017

(Dollars in Thousands)	Current Face	Weighted Average Purchase Price	Weighted Average Market Price	Fair Value (1)	Weighted Average Coupon (2)	Weighted Average Loan Age (Months) (2)	Weighted Average Months to Reset (3)	Interest Only (4)	3 Month Average CPR
Hybrid Post June 2009:									
Agency 5/1	\$398,801	104.3 %	104.6 %	\$416,978	3.47 %	89	5	27 %	16.7 %
Agency 7/1	456,295	104.4	103.3	471,142	2.94	73	13	25	20.8
Agency 10/1	173,534	104.6	102.1	177,192	3.08	68	51	64	11.8
Total Hybrids Post June 2009	\$1,028,630	104.4 %	103.6 %	\$1,065,312	3.17 %	78	16	32 %	17.7 %
Hybrid Pre June 2009:									
Coupon < 4.5% (5)	\$509,290	101.6 %	104.7 %	\$533,183	3.43 %	132	6	19 %	16.1 %
Coupon >= 4.5% (6)	2,511	103.2	104.0	2,612	5.13	119	2	42	1.0
Total Hybrids Pre June 2009	\$511,801	101.7 %	104.7 %	\$535,795	3.44 %	132	5	19 %	16.0 %
Total Hybrids	\$1,540,431	103.5 %	103.9 %	\$1,601,107	3.26 %	96	13	28 %	17.1 %

(1) Does not include principal payments receivable of \$1.2 million and \$1.9 million at June 30, 2018 and December 31, 2017, respectively.

(2) Weighted average is based on MBS current face at June 30, 2018 and December 31, 2017, respectively.

Weighted average months to reset is the number of months remaining before the coupon interest rate resets. At (3) reset, the MBS coupon will adjust based upon the underlying benchmark interest rate index, margin and periodic or lifetime caps. The months to reset do not reflect scheduled amortization or prepayments.

(4)

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Interest only represents MBS backed by mortgages currently in their interest-only period. Percentage is based on MBS current face at June 30, 2018 and December 31, 2017, respectively.

(5) Agency 3/1, 5/1, 7/1 and 10/1 Hybrid ARM-MBS with coupon less than 4.5%.

(6) Agency 3/1, 5/1, 7/1 and 10/1 Hybrid ARM-MBS with coupon greater than or equal to 4.5%.

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## Non-Agency MBS

The following table presents information with respect to our Non-Agency MBS at June 30, 2018 and December 31, 2017:

(In Thousands)	June 30, 2018	December 31, 2017
Non-Agency MBS		
Face/Par	\$3,421,599	\$3,718,743
Fair Value	3,242,967	3,533,966
Amortized Cost	2,665,798	2,910,241
Purchase Discount Designated as Credit Reserve and OTTI	(553,596 )	(1)(593,227 )
Purchase Discount Designated as Accretable	(202,248 )	(215,325 )
Purchase Premiums	43	50

(1) Includes discount designated as Credit Reserve of \$540.7 million and OTTI of \$12.9 million.

(2) Includes discount designated as Credit Reserve of \$579.0 million and OTTI of \$14.2 million.

## Purchase Discounts on Non-Agency MBS

The following table presents the changes in the components of purchase discount on Non-Agency MBS with respect to purchase discount designated as Credit Reserve and OTTI, and accretable purchase discount, for the three and six months ended June 30, 2018 and 2017:

(In Thousands)	Three Months Ended June 30, 2018		Three Months Ended June 30, 2017	
	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)
Balance at beginning of period	\$(572,580)	\$(199,659)	\$(653,337)	\$(269,724)
Impact of RMBS Issuer Settlement (2)	—	(12,089 )	—	—
Accretion of discount	—	17,530	—	20,223
Realized credit losses	10,954	—	13,139	—
Purchases	—	—	(484 )	(1,520 )
Sales	—	—	5,037	2,819
Net impairment losses recognized in earnings	—	—	(618 )	—
Transfers/release of credit reserve	8,030	(8,030 )	9,765	(9,765 )
Balance at end of period	\$(553,596)	\$(202,248)	\$(626,498)	\$(257,967)
(In Thousands)	Six Months Ended June 30, 2018		Six Months Ended June 30, 2017	
	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)	Discount Designated as Credit Reserve and OTTI	Accretable Discount (1)
Balance at beginning of period	\$(593,227)	\$(215,325)	\$(694,241)	\$(278,191)
Impact of RMBS Issuer Settlement (2)	—	(12,089 )	—	—

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Accretion of discount	—	34,746	—	41,840
Realized credit losses	19,401	—	25,463	—
Purchases	(535 )	488	(484 )	(1,520 )
Sales	5,592	5,105	24,778	(1,078 )
Net impairment losses recognized in earnings	—	—	(1,032 )	—
Transfers/release of credit reserve	15,173	(15,173 )	19,018	(19,018 )
Balance at end of period	\$(553,596)	\$(202,248)	\$(626,498)	\$(257,967)

(1) Together with coupon interest, accretable purchase discount is recognized as interest income over the life of the security.

Includes the impact of approximately \$12.1 million of cash proceeds (a one-time payment) received by the Company during the three months ended June 30, 2018 in connection with the settlement of litigation related to certain residential mortgage backed securitization trusts that were sponsored by JP Morgan Chase & Co. and affiliated entities.

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The following table presents information with respect to the yield components of our Non-Agency MBS for the three months ended June 30, 2018 and 2017:

	Three Months Ended June 30, 2018			Three Months Ended June 30, 2017		
	Legacy Non-Agency MBS	RPL/NPL MBS	%	Legacy Non-Agency MBS	RPL/NPL MBS	%
Non-Agency MBS						
Coupon Yield (1)	6.09%	4.49 %		5.52%	4.03 %	
Effective Yield Adjustment (2)	3.80	0.03		3.33	0.15	
Net Yield	9.89%	4.52 %		8.85%	4.18 %	

- (1) Reflects the annualized coupon interest income divided by the average amortized cost. The discounted purchase price on Legacy Non-Agency MBS causes the coupon yield to be higher than the pass-through coupon interest rate. The effective yield adjustment is the difference between the net yield, calculated utilizing management's estimates (2) of timing and amount of future cash flows for Legacy Non-Agency MBS and RPL/NPL MBS, less the current coupon yield.

Actual maturities of MBS are generally shorter than stated contractual maturities because actual maturities of MBS are affected by the contractual lives of the underlying mortgage loans, periodic payments of principal and prepayments of principal. The following table presents certain information regarding the amortized costs, weighted average yields and contractual maturities of our MBS at June 30, 2018 and does not reflect the effect of prepayments or scheduled principal amortization on our MBS:

(Dollars in Thousands)	Within						Total MBS	Total Fair Value	Weighted Average Yield	
	One Year	One to Five Years	Five to Ten Years	Over Ten Years	Weighted Average Yield	Weighted Average Cost				
Agency MBS:										
Fannie Mae	\$—	\$52	2.16%	\$564,832	2.04%	\$1,381,706	2.00%	\$1,946,590	\$1,928,719	2.01%
Freddie Mac	—	—	—	405,668	1.87	40,692	3.05	446,360	428,465	1.98
Ginnie Mae	—	—	—	93	3.32	5,565	2.72	5,658	5,713	2.73
Total Agency MBS	\$—	\$52	2.16%	\$970,593	1.97%	\$1,427,963	2.03%	\$2,398,608	\$2,362,897	2.01%
Non-Agency MBS	\$—	\$234,479	4.23%	\$2,642	3.95%	\$2,428,677	8.67%	\$2,665,798	\$3,242,967	8.27%
Total MBS	\$—	\$234,531	4.23%	\$973,235	1.98%	\$3,856,640	6.21%	\$5,064,406	\$5,605,864	5.30%

## CRT Securities

At June 30, 2018, our total investment in CRT securities was \$572.0 million, with a net unrealized gain of \$43.3 million, a weighted average yield of 6.35% and a weighted average time to maturity of 9.2 years. At December 31, 2017, our total investment in CRT securities was \$664.4 million, with a net unrealized gain of \$56.3 million, a weighted average yield of 6.02% and weighted average time to maturity of 9.2 years.





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## Residential Whole Loans

The following table presents the contractual maturities of our residential whole loans held by consolidated trusts and certain entities established in connection with our loan securitization transactions at June 30, 2018 and does not reflect estimates of prepayments or scheduled amortization. For purchased credit impaired loans held at carrying value, amounts presented are estimated based on the underlying loan contractual amounts.

(In Thousands)	Purchased Credit Impaired Loans, at Carrying Value (1)	Other Loans, at Carrying Value (1)	Residential Whole Loans, at Fair Value (1)
Amount due:			
Within one year	\$ 1,117	\$ 126,218	\$ 9,933
After one year:			
Over one to five years	4,507	36,522	9,602
Over five years	741,611	523,798	1,449,005
Total due after one year	\$ 746,118	\$ 560,320	\$ 1,458,607
Total residential whole loans	\$ 747,235	\$ 686,538	\$ 1,468,540

Excludes approximately \$57.6 million of purchased credit impaired loans held at carrying value, \$414.9 million of (1) other loans held at carrying value and \$34.4 million of residential whole loans held at fair value for which the closing of the purchase transaction had not occurred as of June 30, 2018.

The following table presents, at June 30, 2018, the dollar amount of certain of our residential whole loans contractually maturing after one year, and indicates whether the loans have fixed interest rates or adjustable interest rates:

(In Thousands)	Other Loans, at Carrying Value (1)(2)	Residential Whole Loans, at Fair Value (1)(2)
Interest rates:		
Fixed	\$ 117,410	\$ 822,319
Adjustable	442,910	636,288
Total	\$ 560,320	\$ 1,458,607

(1) Includes loans on which borrowers have defaulted and are not making payments of principal and/or interest as of June 30, 2018.

(2) Excludes approximately \$414.9 million of other loans held at carrying value and \$34.4 million of residential whole loans held at fair value for which the closing of the purchase transaction had not occurred as of June 30, 2018.

Information is not presented for purchased credit impaired loans held at carrying value as income is recognized based on pools of assets with similar risk characteristics using an estimated yield based on cash flows expected to be collected over the lives of the loans in such pools rather than on the contractual coupons of the underlying loans.



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## Exposure to Financial Counterparties

We finance a significant portion of our residential mortgage assets with repurchase agreements and other advances. In connection with these financing arrangements, we pledge our assets as collateral to secure the borrowing. The amount of collateral pledged will typically exceed the amount of the financing with the extent of over-collateralization ranging from 1% to 5% of the amount borrowed for U.S. Treasury and Agency MBS collateral, up to 35% for Non-Agency MBS and residential whole loan collateral, and up to 30% for MSR related asset collateral. Consequently, while repurchase agreement financing results in our recording a liability to the counterparty in our consolidated balance sheets, we are exposed to the counterparty, if during the term of the repurchase agreement financing, a lender should default on its obligation and we are not able to recover our pledged assets. The amount of this exposure is the difference between the amount loaned to us plus interest due to the counterparty and the fair value of the collateral pledged by us to the lender including accrued interest receivable on such collateral.

The table below summarizes our exposure to our counterparties at June 30, 2018, by country:

Country	Number of Counterparties	Repurchase Agreement Financing	Exposure (1)	Exposure as a Percentage of MFA Total Assets	
(Dollars in Thousands)					
European Countries: (2)					
Switzerland (3)	3	\$659,064	\$ 238,448	2.24	%
France	2	569,770	129,870	1.22	
United Kingdom	2	473,688	130,040	1.22	
Holland	1	103,978	6,197	0.06	
Total European	8	1,806,500	504,555	4.74	%
Other Countries:					
United States	11	\$2,927,215	\$ 690,166	6.48	%
Canada (4)	2	598,191	174,055	1.64	
Japan (5)	3	334,535	27,465	0.26	
China (5)	1	308,754	13,012	0.12	
South Korea	1	167,086	11,899	0.11	
Total Other	18	4,335,781	916,597	8.61	%
Total	26	\$6,142,281 (6)	\$ 1,421,152	13.35	%

(1) Represents for each counterparty the amount of cash and/or securities pledged as collateral less the aggregate of repurchase agreement financing and net interest receivable/payable on all such instruments.

(2) Includes European-based counterparties as well as U.S.-domiciled subsidiaries of the European parent entity.

(3) Includes London branch of one counterparty and Cayman Islands branch of the other counterparty.

(4) Includes Canada-based counterparties as well as U.S.-domiciled subsidiaries of Canadian parent entities. In the case of one counterparty, also includes exposure of \$167.3 million to a Barbados-based affiliate of the Canadian parent entity.

(5) Exposure is to U.S.-domiciled subsidiary of the Japanese or Chinese parent entity, as the case may be.

(6) Includes \$250.0 million of repurchase agreements entered into in connection with contemporaneous repurchase and reverse repurchase agreements with a single counterparty.

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

Uncertainty in the global financial market and weak economic conditions in Europe, including as a result of the United Kingdom's recent vote to leave the European Union (commonly known as "Brexit"), could potentially impact our major European financial counterparties, with the possibility that this would also impact the operations of their U.S. domiciled subsidiaries. This could adversely affect our financing and operations as well as those of the entire mortgage sector in general. Management monitors our exposure to our repurchase agreement counterparties on a regular basis, using various methods, including review of recent rating agency actions or other developments and by monitoring the amount of cash and securities collateral pledged and the associated loan amount under repurchase agreements with our counterparties. We intend to make reverse margin calls on our counterparties to recover excess collateral as permitted by the agreements governing our financing arrangements, or take other necessary actions to reduce the amount of our exposure to a counterparty when such actions are considered necessary.

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### Tax Considerations

#### Current period estimated taxable income

We estimate that for the six months ended June 30, 2018, our taxable income was approximately \$157.9 million. Based on dividends paid or declared during the six months ended June 30, 2018, we have undistributed taxable income of approximately \$45.4 million, or \$0.11 per share. We have until the filing of our 2018 tax return (due not later than October 15, 2019) to declare the distribution of any 2018 REIT taxable income not previously distributed.

#### Key differences between GAAP net income and REIT Taxable Income for Non-Agency MBS and Residential Whole Loans

Our total Non-Agency MBS portfolio for tax differs from our portfolio reported for GAAP primarily due to the fact that for tax purposes: (i) certain of the MBS contributed to the VIEs used to facilitate MBS resecuritization transactions were deemed to be sold; and (ii) the tax basis of underlying MBS considered to be reacquired in connection with the unwind of such transactions becomes the fair value of such securities at the time of the unwind. For GAAP reporting purposes the underlying MBS that were included in these MBS resecuritization transactions were not considered to be sold. Similarly, for tax purposes the residential whole loans contributed to the VIE used to facilitate our second quarter 2017 loan securitization transaction were deemed to be sold for tax purposes, but not for GAAP reporting purposes. In addition, for our Non-Agency MBS and residential whole loan tax portfolios, potential timing differences arise with respect to the accretion of market discount into income and recognition of realized losses for tax purposes as compared to GAAP. Consequently, our REIT taxable income calculated in a given period may differ significantly from our GAAP net income.

The determination of taxable income attributable to Non-Agency MBS and residential whole loans is dependent on a number of factors, including principal payments, defaults, loss mitigation efforts and loss severities. In estimating taxable income for Non-Agency MBS and residential whole loans during the year, management considers estimates of the amount of discount expected to be accreted. Such estimates require significant judgment and actual results may differ from these estimates. Moreover, the deductibility of realized losses from Non-Agency MBS and residential whole loans and their effect on market discount accretion are analyzed on an asset-by-asset basis and, while they will result in a reduction of taxable income, this reduction tends to occur gradually and primarily for Non-Agency MBS in periods after the realized losses are reported. In addition, for MBS resecuritization transactions that were treated as a sale of the underlying MBS for tax purposes, taxable gain or loss, if any, resulting from the unwind of such transactions is not recognized in GAAP net income.

#### Securitization transactions result in differences between GAAP net income and REIT Taxable Income

For tax purposes, depending on the transaction structure, a securitization and/or resecuritization transaction may be treated either as a sale or a financing of the underlying collateral. Income recognized from securitization and resecuritization transactions will differ for tax and GAAP purposes. For tax purposes, we own and may in the future acquire interests in securitization and/or resecuritization trusts, in which several of the classes of securities are or will be issued with original issue discount (or OID). As the holder of the retained interests in the trust, we generally will be required to include OID in our current gross interest income over the term of the applicable securities as the OID accrues. The rate at which the OID is recognized into taxable income is calculated using a constant rate of yield to maturity, with realized losses impacting the amount of OID recognized in REIT taxable income once they are actually incurred. Under the Tax Cuts and Jobs Act (or TCJA), the timing of REIT taxable income may be affected by when we include such income for financial accounting purposes. For tax purposes, REIT taxable income may be recognized in excess of economic income (i.e., OID) or in advance of the corresponding cash flow from these assets, thereby affecting our dividend distribution requirement to stockholders. In addition, for securitization and/or resecuritization

transactions that were treated as a sale of the underlying collateral for tax purposes, the unwind of any such transaction will likely result in a taxable gain or loss that is likely not recognized in GAAP net income since securitization and resecuritization transactions are typically accounted for as financing transactions for GAAP purposes. The tax basis of underlying residential whole loans or MBS re-acquired in connection with the unwind of such transactions becomes the fair market value of such assets at the time of the unwind.

#### Regulatory Developments

The U.S. Congress, Board of Governors of the Federal Reserve System, U.S. Treasury, Federal Deposit Insurance Corporation, SEC and other governmental and regulatory bodies have taken and continue to consider additional actions in response to the 2007-2008 financial crisis. In particular, the Dodd-Frank Wall Street Reform and Consumer Protection Act (or the Dodd-Frank Act) created a new regulator, an independent bureau housed within the Federal Reserve System, and known as the Consumer Financial Protection Bureau (or the CFPB). The CFPB has broad authority over a wide range of consumer financial products and services, including mortgage lending and servicing. One portion of the Dodd-Frank Act, the Mortgage Reform and Anti-Predatory

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Lending Act (or Mortgage Reform Act), contains underwriting and servicing standards for the mortgage industry, restrictions on compensation for mortgage loan originators, and various other requirements related to mortgage origination. In addition, the Dodd-Frank Act grants enforcement authority and broad discretionary regulatory authority to the CFPB to prohibit or condition terms, acts or practices relating to residential mortgage loans that the CFPB finds abusive, unfair, deceptive or predatory, as well as to take other actions that the CFPB finds are necessary or proper to ensure responsible affordable mortgage credit remains available to consumers. The Dodd-Frank Act also affects the securitization of mortgages (and other assets) with requirements for risk retention by securitizers and requirements for regulating rating agencies.

The Dodd-Frank Act requires that numerous regulations be issued, many of which (including those mentioned above regarding servicing, underwriting and mortgage loan originator compensation) have only recently been implemented and operationalized. As a result, we are unable to fully predict at this time how the Dodd-Frank Act, as well as other laws or regulations that may be adopted in the future, will affect our business, results of operations and financial condition, or the environment for repurchase financing and other forms of borrowing, the investing environment for Agency MBS, Non-Agency MBS and/or residential mortgage loans, the securitization industry, Swaps and other derivatives. However, at a minimum, we believe that the Dodd-Frank Act and the regulations promulgated thereunder are likely to continue to increase the economic and compliance costs for participants in the mortgage and securitization industries, including us.

In addition to the regulatory actions being implemented under the Dodd-Frank Act, on August 31, 2011, the SEC issued a concept release under which it is reviewing interpretive issues related to Section 3(c)(5)(C) of the Investment Company Act. Section 3(c)(5)(C) excludes from the definition of “investment company” entities that are primarily engaged in, among other things, “purchasing or otherwise acquiring mortgages and other liens on and interests in real estate.” Many companies that engage in the business of acquiring mortgages and mortgage-related instruments seek to rely on existing interpretations of the SEC Staff with respect to Section 3(c)(5)(C) so as not to be deemed an investment company for the purpose of regulation under the Investment Company Act. In connection with the concept release, the SEC requested comments on, among other things, whether it should reconsider its existing interpretation of Section 3(c)(5)(C). To date the SEC has not taken or otherwise announced any further action in connection with the concept release.

The FHFA and both houses of Congress have discussed and considered separate measures intended to restructure the U.S. housing finance system and the operations of Fannie Mae and Freddie Mac. Congress may continue to consider legislation that would significantly reform the country’s mortgage finance system, including, among other things, eliminating Freddie Mac and Fannie Mae and replacing them with a single new MBS insurance agency. Many details remain unsettled, including the scope and costs of the agencies’ guarantee and their affordable housing mission, some of which could be addressed even in the absence of large-scale reform. While the likelihood of enactment of major mortgage finance system reform in the short term remains uncertain, it is possible that the adoption of any such reforms could adversely affect the types of assets we can buy, the costs of these assets and our business operations. As the FHFA and both houses of Congress continue to consider various measures intended to dramatically restructure the U.S. housing finance system and the operations of Fannie Mae and Freddie Mac, we expect debate and discussion on the topic to continue throughout 2018. In June 2018, the Trump Administration proposed a plan that would end the conservatorship of Fannie Mae and Freddie Mac and privatize the GSEs. However, we cannot be certain if any housing and/or mortgage-related legislation will emerge from committee, or be approved by Congress, and if so, what the effect would be on our business.

Additional Material U.S. Federal Income Tax Considerations

The following is a summary of certain additional material federal income tax considerations with respect to the ownership of our stock. This summary supplements and should be read together with “Material U.S. Federal Income



Tax Considerations” in the prospectus dated November 16, 2016 and filed as part of our registration statement on Form S-3 (No. 333-214659).

#### Taxation of Foreign Owners

Foreign Owners that are “qualified shareholders” or “qualified foreign pension funds” may be eligible for additional exemptions from Foreign Investment in Real Property Tax Act of 1980 (or FIRPTA) withholding. REIT distributions that are exempt from FIRPTA withholding may still be subject to regular U.S. withholding tax.

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Results of Operations

Quarter Ended June 30, 2018 Compared to the Quarter Ended June 30, 2017

General

For the second quarter of 2018, we had net income available to our common stock and participating securities of \$66.6 million, or \$0.17 per basic and diluted common share, compared to net income available to common stock and participating securities of \$76.2 million, or \$0.20 per basic and diluted common share, for the second quarter of 2017. The decrease in net income available to common stock and participating securities and the decrease of this item on a per share basis primarily reflects a decrease in our net interest income on our MBS portfolio, lower unrealized gains on CRT securities accounted for at fair value partially offset by an increase in net interest income on our residential whole loans held at carrying value and higher net gains realized on residential whole loans held at fair value.

Net Interest Income

Net interest income represents the difference between income on interest-earning assets and expense on interest-bearing liabilities. Net interest income depends primarily upon the volume of interest-earning assets and interest-bearing liabilities and the corresponding interest rates earned or paid. Our net interest income varies primarily as a result of changes in interest rates, the slope of the yield curve (i.e., the differential between long-term and short-term interest rates), borrowing costs (i.e., our interest expense) and prepayment speeds on our MBS. Interest rates and CPRs (which measure the amount of unscheduled principal prepayment on a bond as a percentage of the bond balance) vary according to the type of investment, conditions in the financial markets, and other factors, none of which can be predicted with any certainty.

The changes in average interest-earning assets and average interest-bearing liabilities and their related yields and costs are discussed in greater detail below under “Interest Income” and “Interest Expense.”

For the second quarter of 2018, our net interest spread and margin were 2.30% and 2.66%, respectively, compared to a net interest spread and margin of 2.10% and 2.58%, respectively, for the second quarter of 2017. Our net interest income decreased by \$11.2 million, or 18.3%, to \$49.9 million for the second quarter of 2018, from \$61.1 million for the second quarter of 2017. Current quarter net interest income from Agency MBS and Non-Agency MBS declined compared to the second quarter of 2017 by approximately \$12.3 million, primarily due to lower average amounts invested in these securities and higher funding costs, partially offset by higher yields earned on these securities. These decreases were partially offset by higher net interest income on residential whole loans at carrying value of approximately \$7.4 million compared to the second quarter of 2017, primarily due to the higher average balance invested in these assets. In addition, net interest income also includes \$10.5 million of interest expense associated with residential whole loans at fair value, reflecting a \$6.1 million increase in borrowing costs related to these investments compared to the second quarter of 2017. Coupon interest income received from residential whole loans at fair value is presented as a component of the total income earned on these investments and therefore is included in Other Income, net rather than net interest income.

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## Analysis of Net Interest Income

The following table sets forth certain information about the average balances of our assets and liabilities and their related yields and costs for the three months ended June 30, 2018 and 2017. Average yields are derived by dividing annualized interest income by the average amortized cost of the related assets, and average costs are derived by dividing annualized interest expense by the daily average balance of the related liabilities, for the periods shown. The yields and costs include premium amortization and purchase discount accretion which are considered adjustments to interest rates.

(Dollars in Thousands)	Three Months Ended June 30,					
	2018			2017		
	Average Balance	Interest	Average Yield/Cost	Average Balance	Interest	Average Yield/Cost
Assets:						
Interest-earning assets:						
Agency MBS (1)	\$2,596,721	\$13,170	2.03 %	\$3,384,724	\$16,587	1.96 %
Legacy Non-Agency MBS (1)	1,836,651	45,393	9.89	2,351,663	52,030	8.85
RPL/NPL MBS (1)	853,950	9,650	4.52	1,745,794	18,239	4.18
Total MBS	5,287,322	68,213	5.16	7,482,181	86,856	4.64
CRT securities (1)	548,373	8,695	6.34	525,164	7,846	5.98
MSR related assets (1)	361,829	6,219	6.88	377,164	5,905	6.26
Residential whole loans, at carrying value (2)	1,228,129	17,935	5.84	568,080	8,503	5.99
Cash and cash equivalents (3)	182,772	685	1.50	609,353	1,047	0.69
Total interest-earning assets	7,608,425	101,747	5.35	9,561,942	110,157	4.61
Total non-interest-earning assets (2)	2,723,523			2,021,401		
Total assets	\$10,331,948			\$11,583,343		
Liabilities and stockholders' equity:						
Interest-bearing liabilities:						
Total repurchase agreements (4)	\$6,189,916	\$46,234	2.95 %	\$7,612,393	\$46,802	2.43 %
Securitized debt	432,283	3,565	3.26	30,414	211	2.74
Senior Notes	96,787	2,011	8.31	96,746	2,009	8.31
Total interest-bearing liabilities	6,718,986	51,810	3.05	7,739,553	49,022	2.51
Total non-interest-bearing liabilities	390,708			648,231		
Total liabilities	7,109,694			8,387,784		
Stockholders' equity	3,222,254			3,195,559		
Total liabilities and stockholders' equity	\$10,331,948			\$11,583,343		
Net interest income/net interest rate spread (5)		\$49,937	2.30 %		\$61,135	2.10 %
Net interest-earning assets/net interest margin (6)	\$889,439		2.66 %	\$1,822,389		2.58 %
Ratio of interest-earning assets to interest-bearing liabilities	1.13	x		1.24	x	

(1) Yields presented throughout this Quarterly Report on Form 10-Q are calculated using average amortized cost data for securities which excludes unrealized gains and losses and includes principal payments receivable on securities. For GAAP reporting purposes, purchases and sales are reported on the trade date. Average amortized cost data used to determine yields is calculated based on the settlement date of the associated purchase or sale as interest

income is not earned on purchased assets and continues to be earned on sold assets until settlement date.

- (2) Excludes residential whole loans held at fair value that are reported as a component of total non-interest-earning assets.
- (3) Includes average interest-earning cash, cash equivalents and restricted cash.
- (4) Average cost of repurchase agreements includes the cost of Swaps allocated based on the proportionate share of the overall estimated weighted average portfolio duration.
- (5) Net interest rate spread reflects the difference between the yield on average interest-earning assets and average cost of funds.
- (6) Net interest margin reflects annualized net interest income divided by average interest-earning assets.

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## Rate/Volume Analysis

The following table presents the extent to which changes in interest rates (yield/cost) and changes in the volume (average balance) of interest-earning assets and interest-bearing liabilities have affected our interest income and interest expense during the periods indicated. Information is provided in each category with respect to: (i) the changes attributable to changes in volume (changes in average balance multiplied by prior rate); (ii) the changes attributable to changes in rate (changes in rate multiplied by prior average balance); and (iii) the net change. The changes attributable to the combined impact of volume and rate have been allocated proportionately, based on absolute values, to the changes due to rate and volume.

(In Thousands)	Three Months Ended June 30, 2018 Compared to Three Months Ended June 30, 2017		
	Volume	Rate	Net Change in Interest Income/Expense
<b>Interest-earning assets:</b>			
Agency MBS	\$(3,988 )	\$571	\$ (3,417 )
Legacy Non-Agency MBS	(12,278 )	5,641	(6,637 )
RPL/NPL MBS	(9,973 )	1,384	(8,589 )
CRT securities	356	493	849
MSR related assets	(247 )	561	314
Residential whole loans, at carrying value (1)	9,644	(212 )	9,432
Cash and cash equivalents	(1,055 )	693	(362 )
Total net change in income from interest-earning assets	\$(17,541)	\$9,131	\$ (8,410 )
<b>Interest-bearing liabilities:</b>			
Agency repurchase agreements	\$(3,328 )	\$3,070	\$ (258 )
Legacy Non-Agency repurchase agreements	(1,984 )	101	(1,883 )
RPL/NPL MBS repurchase agreements	(6,261 )	2,016	(4,245 )
CRT securities repurchase agreements	264	600	864
MSR related assets repurchase agreements	189	40	229
Residential whole loans at carrying value repurchase agreements	321	655	976
Residential whole loans at fair value repurchase agreements	2,960	789	3,749
Securitized debt	3,307	47	3,354
Senior Notes	2	—	2
Total net change in expense of interest-bearing liabilities	\$(4,530 )	\$7,318	\$ 2,788
Net change in net interest income	\$(13,011)	\$1,813	\$ (11,198 )

(1) Excludes residential whole loans held at fair value which are reported as a component of non-interest-earning assets.

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The following table presents certain quarterly information regarding our net interest spread and net interest margin for the quarterly periods presented:

Quarter Ended	Total Interest-Earning Assets and Interest-Bearing Liabilities	
	Net Interest Spread (1)	Net Interest Margin (2)
June 30, 2018	2.30 %	2.66 %
March 31, 2018	2.25	2.64
December 31, 2017	2.08	2.54
September 30, 2017	2.02	2.54
June 30, 2017	2.10	2.58

(1) Reflects the difference between the yield on average interest-earning assets and average cost of funds.

(2) Reflects annualized net interest income divided by average interest-earning assets.

The following table presents the components of the net interest spread earned on our Agency MBS, Legacy Non-Agency MBS and RPL/NPL MBS for the quarterly periods presented:

Quarter Ended	Agency MBS			Legacy Non-Agency MBS			RPL/NPL MBS			Total MBS		
	Net Yield (1)	Cost of Funding Rate	Net Interest Rate Spread (3)	Net Yield (1)	Cost of Funding Rate	Net Interest Rate Spread (3)	Net Yield (1)	Cost of Funding Rate	Net Interest Rate Spread (3)	Net Yield (1)	Cost of Funding Rate	Net Interest Rate Spread (3)
June 30, 2018	2.03 %	2.04 %	(0.01) %	9.89 %	3.30 %	6.59 %	4.52 %	3.19 %	1.33 %	5.16 %	2.64 %	2.52 %
March 31, 2018	2.21	1.91	0.30	9.44	3.29	6.15	4.36	2.94	1.42	5.06	2.53	2.53
December 31, 2017	2.08	1.79	0.29	9.12	3.29	5.83	4.27	2.72	1.55	4.85	2.44	2.41
September 30, 2017	1.97	1.75	0.22	8.93	3.26	5.67	4.43	2.69	1.74	4.74	2.41	2.33
June 30, 2017	1.96	1.57	0.39	8.85	3.28	5.57	4.18	2.46	1.72	4.64	2.27	2.37

(1) Reflects annualized interest income on MBS divided by average amortized cost of MBS.

(2) Reflects annualized interest expense divided by average balance of repurchase agreements, including the cost of Swaps allocated based on the proportionate share of the overall estimated weighted average portfolio duration and securitized debt. Agency MBS cost of funding includes 28, 26, 43, 44 and 49 basis points and Legacy Non-Agency MBS cost of funding includes 31, 30, 45, 45, and 58 basis points associated with Swaps to hedge interest rate sensitivity on these assets for the quarters ended June 30, 2018, March 31, 2018, December 31, 2017, September 30, 2017 and June 30, 2017, respectively.

(3) Reflects the difference between the net yield on average MBS and average cost of funds on MBS.

## Interest Income

Interest income on our Agency MBS for the second quarter of 2018 decreased by \$3.4 million, or 20.6%, to \$13.2 million from \$16.6 million for the second quarter of 2017. This decrease primarily reflects a \$788.0 million decrease in the average amortized cost of our Agency MBS portfolio to \$2.6 billion for the second quarter of 2018 from \$3.4 billion for the second quarter of 2017 partially offset by an increase in the net yield on our Agency MBS to 2.03% for

the second quarter of 2018 from 1.96% for the second quarter of 2017. At the end of the second quarter of 2018, the average coupon on mortgages underlying our Agency MBS was higher compared to the end of the second quarter of 2017, due to upward resets on securities within the portfolio and the impact of the removal from the portfolio of Agency MBS sold during the quarter. In addition, for the second quarter of 2018, our Agency MBS portfolio experienced a 16.2% CPR and we recognized \$6.9 million of net premium amortization compared to a CPR of 16.3% and \$8.3 million of net premium amortization for the second quarter of 2017. At June 30, 2018, we had net purchase premiums on our Agency MBS of \$89.0 million, or 3.9% of current par value, compared to net purchase premiums of \$104.0 million, or 3.8% of par value, at December 31, 2017.

Interest income on our Non-Agency MBS decreased \$15.2 million, or 21.7%, for the second quarter of 2018 to \$55.0 million compared to \$70.3 million for the second quarter of 2017. This decrease is primarily due to the decrease in the average amortized cost of our Non-Agency MBS portfolio of \$1.4 billion, or 34.3%, to \$2.7 billion for the second quarter of 2018 from \$4.1 billion for the second quarter of 2017. This decrease more than offset the impact of the higher yields generated on our Legacy Non-

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Agency MBS portfolio, which were 9.89% for the second quarter of 2018 compared to 8.85% for the second quarter of 2017. The increase in the net yield on our Legacy Non-Agency MBS portfolio reflects the improved performance of loans underlying the Legacy Non-Agency MBS portfolio, which has resulted in credit reserve releases and changes in interest rates since the second quarter of the prior year and the impact of the cash proceeds received during the second quarter of 2018 in connection with the settlement of litigation related to certain residential mortgage backed securitization trusts that were sponsored by JP Morgan Chase & Co. and affiliated entities. Our RPL/NPL MBS portfolio yielded 4.52% for the second quarter of 2018 compared to 4.18% for the second quarter of 2017. The increase in the net yield reflects an increase in the average coupon yield to 4.49% for the second quarter of 2018 from 4.03% for the second quarter of 2017.

During the second quarter of 2018, we recognized net purchase discount accretion of \$17.5 million on our Non-Agency MBS, compared to \$20.2 million for the second quarter of 2017. At June 30, 2018, we had net purchase discounts of \$754.0 million, including Credit Reserve and previously recognized OTTI of \$553.6 million, on our Legacy Non-Agency MBS, or 30.0% of par value. During the second quarter of 2018 we reallocated \$8.0 million of purchase discount designated as Credit Reserve to accretable purchase discount.

The following table presents the coupon yield and net yields earned on our Agency MBS, Legacy Non-Agency MBS and RPL/NPL MBS and weighted average CPRs experienced for such MBS for the quarterly periods presented:

Quarter Ended	Agency MBS			Legacy Non-Agency MBS			RPL/NPL MBS		
	Coupon Yield (1)	Net Yield (2)	3 Month Average CPR (3)	Coupon Yield (1)	Net Yield (2)	3 Month Average CPR (3)	Coupon Yield (1)	Net Yield (2)	3 Month Average Bond CPR (4)
June 30, 2018	3.09%	2.03%	16.2%	6.09%	9.89%	15.8%	4.49%	4.52%	20.4%
March 31, 2018	3.02	2.21	12.7	5.91	9.44	14.9	4.35	4.36	14.0
December 31, 2017	3.00	2.08	14.1	5.82	9.12	16.3	4.24	4.27	20.1
September 30, 2017	2.98	1.97	16.2	5.63	8.93	18.7	4.24	4.43	26.2
June 30, 2017	2.94	1.96	16.3	5.52	8.85	18.2	4.03	4.18	36.2

- (1) Reflects the annualized coupon interest income divided by the average amortized cost. The discounted purchase price on Legacy Non-Agency MBS causes the coupon yield to be higher than the pass-through coupon interest rate.  
(2) Reflects annualized interest income on MBS divided by average amortized cost of MBS.  
(3) 3 month average CPR weighted by positions as of the beginning of each month in the quarter.  
(4) All principal payments are considered to be prepayments for CPR purposes.

Interest income on our residential whole loans held at carrying value increased by \$9.4 million, or 110.9%, for the second quarter of 2018, to \$17.9 million compared to \$8.5 million for the second quarter of 2017. This increase primarily reflects a \$660.0 million increase in the average balance of this portfolio to \$1.2 billion for the second quarter of 2018 from \$568.1 million for the second quarter of 2017 partially offset by a decrease in the yield (net of servicing costs) to 5.84% for the second quarter of 2018 from 5.99% for the second quarter of 2017.

## Interest Expense

Our interest expense for the second quarter of 2018 increased by \$2.8 million to \$51.8 million from \$49.0 million for the second quarter of 2017. This increase primarily reflects an increase in financing rates on our repurchase agreement financings, and an increase in our average borrowings and securitized debt to finance residential whole loans, CRT securities and MSR related assets, which was partially offset by a decrease in our average repurchase agreement borrowings to finance our MBS portfolio. The effective interest rate paid on our borrowings increased to



3.05% for the quarter ended June 30, 2018 from 2.51% for the quarter ended June 30, 2017.

At June 30, 2018, we had repurchase agreement borrowings of \$5.9 billion, of which \$2.6 billion was hedged with Swaps. At June 30, 2018, our Swaps designated in hedging relationships had a weighted average fixed-pay rate of 2.07% and extended 22 months on average with a maximum remaining term of approximately 62 months.

Payments made and/or received on our Swaps are a component of our borrowing costs and accounted for interest expense of \$808,000, or 28 basis points, for the second quarter of 2018, as compared to interest expense of \$6.5 million, or 33 basis points, for the second quarter of 2017. The weighted average fixed-pay rate on our Swaps designated as hedges increased to 2.05% for the quarter ended June 30, 2018 from 1.98% for the quarter ended and June 30, 2017. The weighted average variable interest rate

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received on our Swaps designated as hedges increased to 1.92% for the quarter ended June 30, 2018 from 1.01% for the quarter ended June 30, 2017.

We expect that our interest expense and funding costs for the remainder of 2018 will be impacted by market interest rates, the amount of our borrowings and incremental hedging activity, existing and future interest rates on our hedging instruments and the extent to which we execute additional longer-term structured financing transactions. As a result of these variables, our borrowing costs cannot be predicted with any certainty. (See Notes 5(c), 6 and 14 to the accompanying consolidated financial statements, included under Item 1 of this Quarterly Report on Form 10-Q.)

## OTTI

We did not recognize any OTTI charges through earnings during the second quarter of 2018. During the second quarter of 2017, we recognized OTTI charges through earnings against certain of our Non-Agency MBS of \$618,000. These impairment charges reflected changes in our estimated cash flows for such securities based on an updated assessment of the estimated future performance of the underlying collateral, including the expected principal loss over the term of the securities and changes in the expected timing of receipt of cash flows. At June 30, 2018, we had 473 Agency MBS with a gross unrealized loss of \$54.6 million and 26 Non-Agency MBS with a gross unrealized loss of \$1.3 million. Impairments on Agency MBS in an unrealized loss position at June 30, 2018 are considered temporary and not credit related. Unrealized losses on Non-Agency MBS for which no OTTI was recorded during the quarter are considered temporary based on an assessment of changes in the expected cash flows for such securities, which considers recent bond performance and expected future performance of the underlying collateral. Significant judgment is used both in our analysis of expected cash flows for our Legacy Non-Agency MBS and any determination of the credit component of OTTI.

## Other Income, net

For the second quarter of 2018, Other Income, net increased by \$4.1 million, or 11.0%, to \$41.0 million compared to \$36.9 million for the second quarter of 2017. Other Income, net for the second quarter of 2018 primarily reflects a \$32.4 million net gain recorded on residential whole loans held at fair value and \$7.4 million of net gains realized on the sale of \$179.3 million of investment securities. In addition, Other Income, net for the second quarter of 2018 reflects \$1.4 million of net losses on REO, \$2.4 million of unrealized losses on CRT securities accounted for at fair value partially offset by \$4.3 million of gains on liquidations of purchased credit impaired loans and other loan income. Other Income, net for the second quarter of 2017 primarily reflects a \$16.2 million net gain recorded on residential whole loans held at fair value, \$13.8 million of unrealized gains on CRT securities accounted for at fair value and \$5.9 million of net gains realized on the sale of \$16.9 million of Non-Agency MBS and U.S. Treasury securities.

## Operating and Other Expense

For the second quarter of 2018, we had compensation and benefits and other general and administrative expenses of \$12.6 million, or 1.57% of average equity, compared to \$13.3 million, or 1.67% of average equity, for the second quarter of 2017. Compensation and benefits expense decreased by approximately \$535,000 to \$7.0 million for the second quarter of 2018, compared to \$7.6 million for the second quarter of 2017, which primarily reflects lower incentive compensation accruals. Our other general and administrative expenses decreased by \$172,000 to \$5.6 million for the quarter ended June 30, 2018 compared to \$5.8 million for the quarter ended June 30, 2017.

Operating and Other Expense for the second quarter of 2018 also includes \$7.9 million of loan servicing and other related operating expenses related to our residential whole loan activities. These expenses increased compared to the prior year period by approximately \$3.7 million, or 88.8%, primarily due to higher non-recoverable advances on REO,

loan servicing and modification fees and loan acquisition related expenses.

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## Selected Financial Ratios

The following table presents information regarding certain of our financial ratios at or for the dates presented:

At or for the Quarter Ended	Return on Average Total Assets (1)	Return on Average Total Stockholders' Equity (2)	Total Average Stockholders' Equity to Total Average Assets (3)	Dividend Payout Ratio (4)	Leverage Multiple (5)	Book Value per Share of Common Stock (6)
June 30, 2018	2.58 %	8.74 %	31.19 %	1.18	2.3	\$ 7.54
March 31, 2018	2.93	10.27	29.91	1.00	2.2	7.62
December 31, 2017	3.47	12.29	29.33	0.83	2.3	7.70
September 30, 2017	2.10	7.78	28.60	1.33	2.4	7.70
June 30, 2017	2.63	10.01	27.59	1.00	2.5	7.76

(1) Reflects annualized net income available to common stock and participating securities divided by average total assets.

(2) Reflects annualized net income divided by average total stockholders' equity.

(3) Reflects total average stockholders' equity divided by total average assets.

(4) Reflects dividends declared per share of common stock divided by earnings per share.

(5) Represents the sum of borrowings under repurchase agreements, securitized debt, payable for unsettled purchases, and obligations to return securities obtained as collateral and Senior Notes divided by stockholders' equity.

(6) Reflects total stockholders' equity less the preferred stock liquidation preference divided by total shares of common stock outstanding.

## Six Month Period Ended June 30, 2018 Compared to the Six Month Period Ended June 30, 2017

## General

For the six months ended June 30, 2018, we had net income available to common stock and participating securities of \$146.3 million, or \$0.36 per basic and diluted common share, compared to net income available to common stock and participating securities of \$150.5 million, or \$0.39 per basic and diluted common share, for the six months ended June 30, 2017. The decrease in net income available to common stock and participating securities, and the decrease of this item on a per share basis primarily reflects a decrease in our net interest income on our MBS portfolio, lower unrealized gains on CRT securities accounted for at fair value partially offset by an increase in net interest income on our residential whole loans held at carrying value and higher net gains realized on residential whole loans held at fair value.

## Net Interest Income

For the six months ended June 30, 2018, our net interest spread and margin were 2.28% and 2.65%, respectively, compared to a net interest spread and margin of 2.19% and 2.61%, respectively, for the six months ended June 30, 2017. Our net interest income decreased by \$24.9 million, or 19.5%, to \$103.1 million for the six months ended June 30, 2018, from \$128.0 million for the six months ended June 30, 2017. For the six months ended June 30, 2018, net interest income from Agency MBS and Non-Agency MBS declined compared to the six months ended June 30, 2017, by approximately \$29.3 million, primarily due to lower average amounts invested in these securities and higher funding costs, partially offset by higher yields earned on these securities. These decreases were partially offset by higher net interest income on residential whole loans at carrying value, MSR related assets and CRT securities of approximately \$14.8 million compared to the six months ended June 30, 2017, primarily due to higher average

balances invested in these assets. In addition, net interest income for the six months ended June 30, 2018 also includes \$19.2 million of interest expense associated with residential whole loans at fair value, reflecting a \$10.6 million increase in borrowing costs related to these investments compared to the six months ended June 30, 2017. Coupon interest income received from residential whole loans at fair value is presented as a component of the total income earned on these investments and therefore is included in Other Income, net rather than net interest income.

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## Analysis of Net Interest Income

The following table sets forth certain information about the average balances of our assets and liabilities and their related yields and costs for the six months ended June 30, 2018 and 2017. Average yields are derived by dividing annualized interest income by the average amortized cost of the related assets, and average costs are derived by dividing annualized interest expense by the daily average balance of the related liabilities, for the periods shown. The yields and costs include premium amortization and purchase discount accretion which are considered adjustments to interest rates.

(Dollars in Thousands)	Six Months Ended June 30,							
	2018		2017		2017		Average	
	Average	Interest	Average	Average	Interest	Average	Yield/Cost	
	Balance		Yield/Cost	Balance		Yield/Cost		
Assets:								
Interest-earning assets:								
Agency MBS (1)	\$2,684,929	\$28,463	2.12 %	\$3,499,903	\$34,481	1.97 %		
Legacy Non-Agency MBS (1)	1,893,093	91,429	9.66	2,436,786	108,136	8.88		
RPL/NPL MBS (1)	888,626	19,716	4.44	2,066,593	41,341	4.00		
Total MBS	5,466,648	139,608	5.11	8,003,282	183,958	4.60		
CRT securities (1)	584,526	18,191	6.22	478,022	14,222	5.95		
MSR related assets (1)	420,078	13,842	6.59	337,397	10,639	6.31		
Residential whole loans, at carrying value (2)	1,108,272	32,264	5.82	576,315	17,193	5.97		
Cash and cash equivalents (3)	253,832	1,594	1.26	467,876	1,402	0.60		
Total interest-earning assets	7,833,356	205,499	5.25	9,862,892	227,414	4.61		
Total non-interest-earning assets (2)	2,759,854			2,065,613				
Total assets	\$10,593,210			\$11,928,505				
Liabilities and stockholders' equity:								
Interest-bearing liabilities:								
Total repurchase agreements and other advances (4)	6,353,742	91,951	2.88	8,051,184	95,141	2.35		
Securitized debt	395,256	6,392	3.22	15,291	211	2.74		
Senior Notes	96,782	4,021	8.31	96,741	4,019	8.31		
Total interest-bearing liabilities	6,845,780	102,364	2.97	8,163,216	99,371	2.42		
Total non-interest-bearing liabilities	512,881			635,729				
Total liabilities	7,358,661			8,798,945				
Stockholders' equity	3,234,549			3,129,560				
Total liabilities and stockholders' equity	\$10,593,210			\$11,928,505				
Net interest income/ net interest rate spread (5)		\$103,135	2.28 %		\$128,043	2.19 %		
Net interest-earning assets/ net interest margin (6)	\$987,576		2.65 %	\$1,699,676		2.61 %		
Ratio of interest-earning assets to interest-bearing liabilities	1.14	x		1.21	x			

(1) Yields presented throughout this Quarterly Report on Form 10-Q are calculated using average amortized cost data for securities which excludes unrealized gains and losses and includes principal payments receivable on securities.

For GAAP reporting purposes, purchases and sales are reported on the trade date. Average amortized cost data used to determine yields is calculated based on the settlement date of the associated purchase or sale as interest income is not earned on purchased assets and continues to be earned on sold assets until settlement date.

- (2) Excludes residential whole loans held at fair value that are reported as a component of total non-interest-earning assets.
- (3) Includes average interest-earning cash, cash equivalents and restricted cash.
- (4) Average cost of repurchase agreements includes the cost of Swaps allocated based on the proportionate share of the overall estimated weighted average portfolio duration.
- (5) Net interest rate spread reflects the difference between the yield on average interest-earning assets and average cost of funds.
- (6) Net interest margin reflects annualized net interest income divided by average interest-earning assets.

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Rate/Volume Analysis

The following table presents the extent to which changes in interest rates (yield/cost) and changes in the volume (average balance) of interest-earning assets and interest-bearing liabilities have affected our interest income and interest expense during the periods indicated. Information is provided in each category with respect to: (i) the changes attributable to changes in volume (changes in average balance multiplied by prior rate); (ii) the changes attributable to changes in rate (changes in rate multiplied by prior average balance); and (iii) the net change. The changes attributable to the combined impact of volume and rate have been allocated proportionately, based on absolute values, to the changes due to rate and volume.

(In Thousands)	Six Months Ended June 30, 2018 Compared to Six Months Ended June 30, 2017		
	Volume	Rate	Total Net Change in Interest Income/Expense
<b>Interest-earning assets:</b>			
Agency MBS	\$(8,487 )	\$2,469	\$ (6,018 )
Legacy Non-Agency MBS	(25,660 )	8,953	(16,707 )
RPL/NPL MBS	(25,743 )	4,118	(21,625 )
CRT securities	3,290	679	3,969
MSR related assets	2,706	497	3,203
Residential whole loans, at carrying value (1)	15,496	(425 )	15,071
Cash and cash equivalents	(848 )	1,040	192
Total net change in income from interest-earning assets	\$(39,246)	\$17,331	\$ (21,915 )
<b>Interest-bearing liabilities:</b>			
Agency repurchase agreements and other advances	\$(6,602 )	\$6,001	\$ (601 )
Legacy Non-Agency repurchase agreements	(5,145 )	1,319	(3,826 )
RPL/NPL MBS repurchase agreements	(15,226 )	4,574	(10,652 )
CRT securities repurchase agreements	1,239	1,052	2,291
MSR related assets repurchase agreements	1,150	183	1,333
Residential whole loan at carrying value repurchase agreements	447	1,199	1,646
Residential whole loan at fair value repurchase agreements	4,880	1,739	6,619
Securitized debt	6,139	42	6,181
Senior Notes	2	—	2
Total net change in expense of interest-bearing liabilities	\$(13,116)	\$16,109	\$ 2,993
Net change in net interest income	\$(26,130)	\$1,222	\$ (24,908 )

(1) Excludes residential whole loans held at fair value which are reported as a component of non-interest-earning assets.

The following table presents the components of the net interest spread earned on our Agency MBS, Legacy Non-Agency MBS and RPL/NPL MBS for the periods presented:

Six Months Ended	Agency MBS			Legacy Non-Agency MBS			RPL/NPL MBS			Total MBS		
	Net Yield	Cost of Funding	Net Interest	Net Yield	Cost of Funding	Net Interest	Net Yield	Cost of Funding	Net Interest	Net Yield	Cost of Funding	Net Interest



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	(1)	(2)	Spread (3)	(1)	(2)	Spread (3)	(1)	(2)	Spread (3)	(1)	(2)	Spread (3)
June 30, 2018	2.12%	1.97 %	0.15 %	9.66%	3.29 %	6.37 %	4.44%	3.06 %	1.38 %	5.11%	2.58 %	2.53 %
June 30, 2017	1.97%	1.53 %	0.44 %	8.88%	3.16 %	5.72 %	4.00%	2.35 %	1.65 %	4.60%	2.20 %	2.40 %

(1) Reflects annualized interest income on MBS divided by average amortized cost of MBS.

(2) Reflects annualized interest expense divided by average balance of repurchase agreements and other advances, including the cost of Swaps allocated based on the proportionate share of the overall estimated weighted average portfolio duration, and securitized debt. Agency MBS cost of funding includes 18 and 51 basis points and Legacy Non-Agency MBS cost of funding includes 19 and 54 basis points associated with Swaps to hedge interest rate sensitivity on these assets for the six months ended June 30, 2018 and 2017, respectively.

(3) Reflects the difference between the net yield on average MBS and average cost of funds on MBS.

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## Interest Income

Interest income on our Agency MBS for the six months ended June 30, 2018 decreased by \$6.0 million, or 17.5%, to \$28.5 million from \$34.5 million for the six months ended June 30, 2017. This change primarily reflects a \$815.0 million decrease in the average amortized cost of our Agency MBS portfolio to \$2.7 billion for the six months ended June 30, 2018 from \$3.5 billion for the six months ended June 30, 2017 partially offset by an increase in the net yield on our Agency MBS to 2.12% for the six months ended June 30, 2018 from 1.97% for the six months ended June 30, 2017. At the end of the second quarter of 2018, the average coupon on mortgages underlying our Agency MBS was higher compared to the end of the second quarter of 2017. In addition, during the six months ended June 30, 2018, our Agency MBS portfolio experienced a 14.4% CPR and we recognized \$12.5 million of net premium amortization compared to a CPR of 13.6% and \$16.6 million of net premium amortization for the six months ended June 30, 2017. At June 30, 2018, we had net purchase premiums on our Agency MBS of \$89.0 million, or 3.9% of current par value, compared to net purchase premiums of \$104.0 million, or 3.8% of par value at December 31, 2017.

Interest income on our Non-Agency MBS decreased by \$38.3 million, or 25.6%, for the six months ended June 30, 2018 to \$111.1 million compared to \$149.5 million for the six months ended June 30, 2017. This decrease is primarily due to the decrease in the average amortized cost of our Non-Agency MBS portfolio of \$1.7 billion or 38.2%, to \$2.8 billion from \$4.5 billion for the six months ended June 30, 2017. This decrease more than offset the impact of the higher yields generated on our Legacy Non-Agency MBS portfolio, which were 9.66% for the six months ended June 30, 2018 compared to 8.88% for the six months ended June 30, 2017. The increase in the net yield on our Legacy Non-Agency MBS portfolio reflects the improved performance of loans underlying the Legacy Non-Agency MBS portfolio, which has resulted in credit reserve releases and changes in interest rates since the second quarter of the prior year and the impact of the cash proceeds received during the six months ended June 30, 2018 in connection with the settlement of litigation related to certain residential mortgage backed securitization trusts that were sponsored by JP Morgan Chase & Co. and affiliated entities. Our RPL/NPL MBS portfolio yielded 4.44% for the six months ended June 30, 2018 compared to 4.00% for the six months ended June 30, 2017. The increase in the net yield reflects an increase in the average coupon yield to 4.42% for the six months ended June 30, 2018 from 3.92% for the six months ended June 30, 2017.

During the six months ended June 30, 2018, we recognized net purchase discount accretion of \$34.7 million on our Non-Agency MBS, compared to \$41.8 million for the six months ended June 30, 2017. At June 30, 2018, we had net purchase discounts of \$754.0 million, including Credit Reserve and previously recognized OTTI of \$553.6 million, on our Legacy Non-Agency MBS, or 30.0% of par value. During the six months ended June 30, 2018 we reallocated \$15.2 million of purchase discount designated as Credit Reserve to accretable purchase discount.

The following table presents the coupon yield and net yields earned on our Agency MBS, Legacy Non-Agency MBS and RPL/NPL MBS and weighted average CPRs experienced for such MBS for the periods presented:

Six Months Ended	Agency MBS			Legacy Non-Agency MBS			RPL/NPL MBS		
	Coupon Yield (1)	Net Yield (2)	6 Month Average CPR (3)	Coupon Yield (1)	Net Yield (2)	6 Month Average CPR (3)	Coupon Yield (1)	Net Yield (2)	6 Month Average Bond CPR (4)
June 30, 2018	3.05%	2.12%	14.4%	6.00%	9.66%	15.3%	4.42%	4.44%	17.2%
June 30, 2017	2.92%	1.97%	13.6%	5.51%	8.88%	15.2%	3.92%	4.00%	31.5%

(1) Reflects the annualized coupon interest income divided by the average amortized cost. The discounted purchase price on Legacy Non-Agency MBS causes the coupon yield to be higher than the pass-through coupon interest rate.

- (2) Reflects annualized interest income on MBS divided by average amortized cost of MBS.
- (3) 6 month average CPR weighted by positions as of the beginning of each month in the quarter.
- (4) All principal payments are considered to be prepayments for CPR purposes.

Interest income on our residential whole loans held at carrying value increased by \$15.1 million, or 87.7%, for the six months ended June 30, 2018 to \$32.3 million compared to \$17.2 million for the six months ended June 30, 2017. This increase primarily reflects a \$532.0 million increase in the average balance of this portfolio to \$1.1 billion for the six months ended June 30, 2018 from \$576.3 million for the six months ended June 30, 2017 partially offset by a decrease in the yield (net of servicing costs) to 5.82% for the six months ended June 30, 2018 from 5.97% for the six months ended June 30, 2017.

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## Interest Expense

Our interest expense for the six months ended June 30, 2018 increased by \$3.0 million, or 3.0%, to \$102.4 million, from \$99.4 million for the six months ended June 30, 2017. This increase primarily reflects an increase in financing rates on our repurchase agreement financings, an increase in our average borrowings and securitized debt to finance residential whole loans, CRT securities and MSR related assets, which was partially offset by a decrease in our average repurchase agreement borrowings and other advances to finance our MBS portfolio. The effective interest rate paid on our borrowings increased to 2.97% for the six months ended June 30, 2018, from 2.42% for the six months ended June 30, 2017.

Payments made and/or received on our Swaps are a component of our borrowing costs and accounted for interest expense of \$3.6 million, or 11 basis points, for the six months ended June 30, 2018, compared to interest expense of \$14.3 million, or 35 basis points, for the six months ended June 30, 2017. The weighted average fixed-pay rate on our Swaps designated as hedges increased to 2.04% for the six months ended June 30, 2018 from 1.93% for the six months ended June 30, 2017. The weighted average variable interest rate received on our Swaps designated as hedges increased to 1.76% for the six months ended June 30, 2018 from 0.90% for the six months ended June 30, 2017.

We expect that our interest expense and funding costs for the remainder of 2018 will be impacted by market interest rates, the amount of our borrowings and incremental hedging activity, existing and future interest rates on our hedging instruments and the extent to which we execute additional longer-term structured financing transactions. As a result of these variables, our borrowing costs cannot be predicted with any certainty. (See Notes 5(b), 6 and 14 to the accompanying consolidated financial statements, included under Item 1 of this Quarterly Report on Form 10-Q.)

## OTTI

We did not recognize any OTTI charges through earnings during the six months ended June 30, 2018. During the six months ended June 30, 2017, we recognized OTTI charges through earnings against certain of our Non-Agency MBS of \$1.0 million. These impairment charges reflected changes in our estimated cash flows for such securities based on an updated assessment of the estimated future performance of the underlying collateral, including the expected principal loss over the term of the securities and changes in the expected timing of receipt of cash flows.

## Other Income, net

For the six months ended June 30, 2018, Other Income, net increased by \$23.7 million, or 36.5%, to \$88.7 million compared to \$64.9 million for the six months ended June 30, 2017. Other Income, net for the six months ended June 30, 2018 primarily reflects a \$70.9 million net gain recorded on residential whole loans held at fair value and \$16.2 million of net gains realized on the sale of \$198.7 million of investment securities. In addition, Other Income, net for the six months ended June 30, 2018 reflects \$2.8 million of net losses on REO, \$3.2 million of unrealized losses on CRT securities accounted for at fair value partially offset by \$6.8 million of other loan income. Other Income, net for the six months ended June 30, 2017 primarily reflects a net gain of \$30.0 million on residential whole loans held at fair value, \$19.4 million of unrealized gains on CRT securities accounted for at fair value and \$15.6 million of gains realized on the sale of \$177.6 million of Non-Agency MBS and U.S. Treasury securities.

## Operating and Other Expense

During the six months ended June 30, 2018, we had compensation and benefits and other general and administrative expenses of \$23.2 million, or 1.43% of average equity, compared to \$25.3 million, or 1.62% of average equity, for the six months ended June 30, 2017. Compensation and benefits expense decreased \$1.6 million to \$13.8 million for the

six months ended June 30, 2018, compared to \$15.4 million for the six months ended June 30, 2017, which primarily reflects lower incentive compensation accruals and lower expense recognized in connection with long-term incentive awards. Our other general and administrative expenses decreased by \$565,000 to \$9.4 million for the six months ended June 30, 2018 compared to \$10.0 million for the six months ended June 30, 2017, primarily due to costs associated with loan securitization transaction completed during the prior year period, lower deferred compensation costs to Directors, which were impacted during the current six month period by changes in the Company's stock price, partially offset by an increase in professional services related costs.

Operating and Other Expense during the six months ended June 30, 2018 also includes \$14.8 million of loan servicing and other related operating expenses related to our residential whole loan activities. These expenses increased compared to the prior year period by approximately \$6.2 million, primarily due to increased loan servicing and modification fees, higher loan acquisition related expenses and increases in non-recoverable advances on REO.

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## Selected Financial Ratios

The following table presents information regarding certain of our financial ratios at or for the dates presented:

At or for the Six Months Ended	Return on Average Total Assets (1)	Return on Average Total Stockholders' Equity (2)	Total Average Stockholders' Equity to Total Average Assets (3)	Dividend Payout Ratio (4)	Leverage Multiple (5)	Book Value per Share of Common Stock (6)
June 30, 2018	2.76 %	9.51 %	30.53 %	1.11	2.3	\$ 7.54
June 30, 2017	2.52	10.10	26.24	1.03	2.5	7.76

- (1) Reflects annualized net income available to common stock and participating securities divided by average total assets.
- (2) Reflects annualized net income divided by average total stockholders' equity.
- (3) Reflects total average stockholders' equity divided by total average assets.
- (4) Reflects dividends declared per share of common stock divided by earnings per share.
- (5) Represents the sum of borrowings under repurchase agreements, securitized debt, payable for unsettled purchases, and obligations to return securities obtained as collateral and Senior Notes divided by stockholders' equity.
- (6) Reflects total stockholders' equity less the preferred stock liquidation preference divided by total shares of common stock outstanding.

## Recent Accounting Standards to Be Adopted in Future Periods

## Compensation - Stock Compensation - Improvements to Nonemployee Share-Based Payment Accounting

In June 2018, the FASB issued ASU 2018-07, Improvements to Nonemployee Share-Based Payment Accounting (or ASU 2018-07). The amendments in this ASU simplify the accounting for share-based payments to nonemployees by aligning it with the accounting for share-based payments to employees, with certain exceptions. The amendments in ASU 2018-07 do not change existing guidance on accounting for share-based payment transactions for employees. ASU 2018-07 is effective for public business entities for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. Early adoption is permitted, but no earlier than an entity's adoption of FASB Accounting Standards Codification Topic 606, Revenue from Contracts with Customers. An entity should apply the amendments of this ASU to all new awards granted after the date of adoption. In addition, entities will apply the new guidance to equity-classified nonemployee awards for which a measurement date has not been established and liability-classified nonemployee awards that have not been settled as of date of adoption by recognizing a cumulative-effect adjustment to retained earnings as of the beginning of the annual period of adoption. We are currently evaluating our adoption timing and the effect that ASU 2018-07 will have on our consolidated financial statements and related disclosures, but do not anticipate that adoption of the new standard would have a significant impact.

## Derivatives and Hedging - Targeted Improvements to Accounting for Hedging Activities

In August 2017, the FASB issued ASU 2017-12, Targeted Improvements to Accounting for Hedging Activities (or ASU 2017-12). The amendments in this ASU expand an entity's ability to hedge non-financial and financial risk components and reduce complexity in fair value hedges of interest rate risk. The new guidance eliminates the requirement to separately measure and report hedge ineffectiveness and requires the entire change in the fair value of a hedging instrument to be presented in the same income statement line as the hedged item. ASU 2017-12 also simplifies certain documentation and assessment requirements and modifies the accounting for components excluded from the assessment of hedge effectiveness. ASU 2017-12 is effective for public business entities for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. Early application is permitted in any

interim period or fiscal year before the effective date. An entity should apply the amendments of this ASU to cash flow and net investment hedge relationships that exist on the date of adoption using a modified retrospective approach. The presentation and disclosure requirements of ASU 2017-12 should be applied prospectively. In addition, certain transition elections may be made by an entity upon adoption to allow for existing hedging relationships to transition to the newly allowable alternatives within this ASU. We are currently evaluating our adoption timing and the effect that ASU 2017-12 will have on our consolidated financial statements and related disclosures, but do not anticipate that adoption of the new standard would have a significant impact.

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Financial Instruments - Credit Losses - Measurement of Credit Losses on Financial Instruments

In June 2016, the FASB issued ASU 2016-13, Measurements of Credit Losses on Financial Instruments (or ASU 2016-13). The amendments in ASU 2016-13 require entities to measure all expected credit losses for financial assets held at the reporting date based on historical experience, current conditions and reasonable and supportable forecasts. Entities will now use forward-looking information to better inform their credit loss estimates. ASU 2016-13 also requires enhanced financial statement disclosures to help financial statement users better understand significant estimates and judgments used in estimating credit losses, as well as the credit quality and underwriting standards of an entity's portfolio. Under ASU 2016-13, credit losses for available-for-sale debt securities should be measured in a manner similar to current GAAP. However, the amendments in this ASU require that credit losses be recorded through an allowance for credit losses, which will allow subsequent reversals in credit loss estimates to be recognized in current income. In addition, the allowance on available-for-sale debt securities will be limited to the extent that the fair value is less than the amortized cost.

ASU 2016-13 is effective for public business entities for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019. Early adoption is permitted for all entities for annual periods beginning after December 15, 2018, and interim periods therein. The amendments in this ASU are required to be applied by recording a cumulative-effect adjustment to equity as of the beginning of the first reporting period in which the guidance is effective. A prospective transition approach is required for debt securities for which an OTTI had been recognized before the effective date. Based on our initial evaluation of the amendments in this ASU, we anticipate being required to make changes to the way we account for credit impairment losses on our available-for-sale debt securities. Under our current accounting, credit impairment losses are generally required to be recorded as OTTI, which directly reduce the carrying amount of impaired securities, and are recorded in earnings and are not reversed if expected cash flows subsequently recover. Under the new guidance, credit impairments on such securities will be recorded as an allowance for credit losses that are also recorded in earnings, but the allowance can be reversed through earnings in a subsequent period if expected cash flows subsequently recover. In addition, we expect that the new guidance will also result in changes to the accounting and presentation of our residential whole loans held at carrying value. We currently anticipate that, upon adoption, the guidance will result in an increase in the gross carrying amount of our residential whole loans at carrying value by the amount of the allowance for loan losses calculated under the new guidance. Thereafter, changes in the expected cash flows of such assets are expected to result in the recognition (or reversal) of an allowance for loan losses that will impact earnings. We will continue to monitor and evaluate the potential effects that ASU 2016-13 will have on our consolidated financial statements and related disclosures.

Leases

In February 2016, the FASB issued ASU 2016-02, Leases (or ASU 2016-02). The amendments in this ASU establish a right-of-use model that requires a lessee to record a right-of-use asset and a lease liability on the balance sheet for all leases with terms longer than 12 months. Leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the income statement. ASU 2016-02 is effective for public business entities for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements, with certain practical expedients available. Our significant lease contracts are discussed in Note 10(a) of the accompanying consolidated financial statements. While we continue to evaluate the potential impact that adoption of ASU 2016-02 will have on our financial reporting, given the relatively limited nature and extent of lease financing transactions that we have entered into, we do not expect that the adoption of ASU 2016-02 will have a significant impact on our financial position or financial statement disclosures.





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Liquidity and Capital Resources

General

Our principal sources of cash generally consist of borrowings under repurchase agreements and other collateralized financings, payments of principal and interest we receive on our investment portfolio, cash generated from our operating results and, to the extent such transactions are entered into, proceeds from capital market and structured financing transactions. Our most significant uses of cash are generally to pay principal and interest on our financing transactions, to purchase residential mortgage assets, to make dividend payments on our capital stock, to fund our operations and to make other investments that we consider appropriate.

We seek to employ a diverse capital raising strategy under which we may issue capital stock and other types of securities. To the extent we raise additional funds through capital market transactions, we currently anticipate using the net proceeds from such transactions to acquire additional residential mortgage-related assets, consistent with our investment policy, and for working capital, which may include, among other things, the repayment of our financing transactions. There can be no assurance, however, that we will be able to access the capital markets at any particular time or on any particular terms. We have available for issuance an unlimited amount (subject to the terms and limitations of our charter) of common stock, preferred stock, depositary shares representing preferred stock, warrants, debt securities, rights and/or units pursuant to our automatic shelf registration statement and, at June 30, 2018, we had 12.0 million shares of common stock available for issuance pursuant to our DRSPS shelf registration statement. During the six months ended June 30, 2018, we issued 237,533 shares of common stock through our DRSPS, raising net proceeds of approximately \$1.7 million. On May 10, 2017, we closed on the sale of 23,000,000 shares of common stock, including 3,000,000 shares purchased pursuant to the exercise of the underwriters' option to purchase additional shares, for gross proceeds of approximately \$178.7 million before deducting estimated offering expenses.

Our borrowings under repurchase agreements are uncommitted and renewable at the discretion of our lenders and, as such, our lenders could determine to reduce or terminate our access to future borrowings at virtually any time. The terms of the repurchase transaction borrowings under our master repurchase agreements, as such terms relate to repayment, margin requirements and the segregation of all securities that are the subject of repurchase transactions, generally conform to the terms contained in the standard master repurchase agreement published by the Securities Industry and Financial Markets Association (or SIFMA) or the global master repurchase agreement published by SIFMA and the International Capital Market Association. In addition, each lender typically requires that we include supplemental terms and conditions to the standard master repurchase agreement. Typical supplemental terms and conditions, which differ by lender, may include changes to the margin maintenance requirements, required haircuts (as defined below), purchase price maintenance requirements, requirements that all controversies related to the repurchase agreement be litigated in a particular jurisdiction and cross default and setoff provisions.

With respect to margin maintenance requirements for repurchase agreements secured by harder to value assets, such as Non-Agency MBS, residential whole loans and MSR related assets, margin calls are typically determined by our counterparties based on their assessment of changes in the fair value of the underlying collateral and in accordance with the agreed upon haircuts specified in the transaction confirmation with the counterparty. We address margin call requests in accordance with the required terms specified in the applicable repurchase agreement and such requests are typically satisfied by posting additional cash or collateral on the same business day. We review margin calls made by counterparties and assess them for reasonableness by comparing the counterparty valuation against our valuation determination. When we believe that a margin call is unnecessary because our assessment of collateral value differs from the counterparty valuation, we typically hold discussions with the counterparty and are able to resolve the matter. In the unlikely event that resolution cannot be reached, we will look to resolve the dispute based on the remedies available to us under the terms of the repurchase agreement, which in some instances may include the engagement of a third-party to review collateral valuations. For other agreements that do not include such provisions,

we could resolve the matter by substituting collateral as permitted in accordance with the agreement or otherwise request the counterparty to return the collateral in exchange for cash to unwind the financing.

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The following table presents information regarding the margin requirements, or the percentage amount by which the collateral value is contractually required to exceed the loan amount (this difference is referred to as the “haircut”), on our repurchase agreements at June 30, 2018 and December 31, 2017:

At June 30, 2018	Weighted Average Haircut	Low	High
Repurchase agreement borrowings secured by:			
Agency MBS	4.52 %	3.00 %	5.00 %
Legacy Non-Agency MBS	21.24	15.00	35.00
RPL/NPL MBS	22.01	15.00	30.00
U.S. Treasury securities	1.00	1.00	1.00
CRT securities	20.43	15.00	25.00
MSR related assets	21.70	20.00	30.00
Residential whole loans	25.55	20.00	34.00
At December 31, 2017	Weighted Average Haircut	Low	High
Repurchase agreement borrowings secured by:			
Agency MBS	4.65 %	3.00 %	8.00 %
Legacy Non-Agency MBS	21.87	15.00	35.00
RPL/NPL MBS	22.05	20.00	27.50
U.S. Treasury securities	1.47	1.00	2.00
CRT securities	22.16	15.00	25.00
MSR related assets	33.19	30.00	50.00
Residential whole loans	26.10	20.00	35.00

During the first six months of 2018, the weighted average haircut requirements for the respective underlying collateral types for our repurchase agreements have remained fairly consistent compared to the end of 2017. Weighted average haircuts have decreased on MSR related assets and CRT securities.

Repurchase agreement funding for our residential mortgage investments has been available to us at generally attractive market terms from multiple counterparties. Typically, due to the risks inherent in credit sensitive residential mortgage investments, repurchase agreement funding involving such investments is available at terms requiring higher collateralization and higher interest rates than repurchase agreement funding secured by Agency MBS and U.S. Treasury securities. Therefore, we generally expect to be able to finance our acquisitions of Agency MBS on more favorable terms than financing for credit sensitive investments.

We maintain cash and cash equivalents, unpledged Agency and Non-Agency MBS and collateral in excess of margin requirements held by our counterparties (or collectively, “cash and other unpledged collateral”) to meet routine margin calls and protect against unforeseen reductions in our borrowing capabilities. Our ability to meet future margin calls will be impacted by our ability to use cash or obtain financing from unpledged collateral, which can vary based on the market value of such collateral, our cash position and margin requirements. Our cash position fluctuates based on the timing of our operating, investing and financing activities and is managed based on our anticipated cash needs. (See our Consolidated Statements of Cash Flows, included under Item 1 of this Quarterly Report on Form 10-Q and “Interest Rate Risk” included under Item 3 of this Quarterly Report on Form 10-Q.)

At June 30, 2018, we had a total of \$7.2 billion of MBS, U.S. Treasury securities, CRT securities, residential whole loans and MSR related assets and \$3.3 million of restricted cash pledged against our repurchase agreements. At June 30, 2018, we have access to various sources of liquidity which we estimate exceeds \$606.4 million. This includes (i) \$54.9 million of cash and cash equivalents; (ii) \$172.0 million in estimated financing available from unpledged Agency MBS and U.S. Treasury securities and other Agency MBS collateral that is currently pledged in excess of contractual requirements; and (iii) \$379.5 million in estimated financing available from unpledged Non-Agency MBS and from other Non-Agency MBS and CRT collateral that is currently pledged in excess of contractual requirements. Our sources of liquidity do not include restricted cash. In addition, we have \$877.1

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million of unencumbered residential whole loans. We are evaluating potential opportunities to finance these assets including loan securitization.

The table below presents certain information about our borrowings under repurchase agreements and securitized debt:

Quarter Ended (1)	Repurchase Agreements			Securitized Debt		
	Quarterly Average Balance	End of Period Balance	Maximum Balance at Any Month-End	Quarterly Average Balance	End of Period Balance	Maximum Balance at Any Month-End
(In Thousands)						
June 30, 2018	\$6,189,916	\$5,892,228	\$6,319,178	\$432,283	\$518,655	\$523,490
March 31, 2018	6,519,390	6,558,860	6,558,860	357,819	351,278	361,002
December 31, 2017	6,661,020	6,614,701	6,760,360	212,445	363,944	363,944
September 30, 2017	7,022,913	6,871,443	7,023,702	139,276	137,327	141,088
June 30, 2017	7,612,393	7,040,844	7,763,860	30,414	143,698	143,698

(1) The information presented in the table above excludes Senior Notes issued in April 2012. The outstanding balance of Senior Notes has been unchanged at \$100.0 million since issuance.

#### Cash Flows and Liquidity for the Six Months Ended June 30, 2018

Our cash, cash equivalents and restricted cash decreased by \$404.9 million during the six months ended June 30, 2018, reflecting: \$715.3 million used in our financing activities; \$266.6 million provided by our investing activities; and \$43.8 million provided by our operating activities.

At both June 30, 2018 and December 31, 2017, our debt-to-equity multiple was 2.3 times. At June 30, 2018, we had borrowings under repurchase agreements of \$5.9 billion with 26 counterparties, of which \$2.1 billion were secured by Agency MBS, \$1.4 billion were secured by Legacy Non-Agency MBS, \$499.3 million were secured by RPL/NPL MBS, \$220.9 million were secured by U.S. Treasuries, \$410.2 million were secured by CRT securities, \$297.1 million were secured by MSR related assets and \$988.8 million were secured by residential whole loans. We continue to have available capacity under our repurchase agreement credit lines. In addition, at June 30, 2018, we had securitized debt of \$518.7 million in connection with our loan securitization transactions. At December 31, 2017, we had borrowings under repurchase agreements of \$6.6 billion with 31 counterparties, of which \$2.5 billion were secured by Agency MBS, \$1.3 billion were secured by Legacy Non-Agency MBS, \$567.1 million were secured by RPL/NPL MBS, \$470.3 million were secured by U.S. Treasuries, \$459.1 million were secured by CRT securities, \$317.3 million were secured by MSR related assets and \$1.0 billion were secured by residential whole loans. In addition, at December 31, 2017, we had securitized debt of \$363.9 million in connection with our loan securitization transactions.

During the six months ended June 30, 2018, \$266.6 million was provided by our investing activities. We paid \$943.4 million for purchases of residential whole loans and capitalized advances, and purchased \$162.4 million of MSR related assets, \$140.4 million of Non-Agency MBS, and \$20.6 million of CRT securities funded with cash and repurchase agreement borrowings. In addition, during the six months ended June 30, 2018, we received cash of \$1.1 billion from prepayments and scheduled amortization on our MBS, CRT securities and MSR related assets, of which \$354.4 million was attributable to Agency MBS, \$470.0 million was from Non-Agency MBS, \$9.2 million was from CRT securities and \$274.2 million was attributable to MSR related assets, and we sold certain of our investment securities for \$198.4 million, realizing net gains of \$16.2 million. While we generally intend to hold our MBS and CRT securities as long-term investments, we may sell certain of our securities in order to manage our interest rate risk and liquidity needs, meet other operating objectives and adapt to market conditions. During the six months ended June 30, 2018 we received \$174.7 million of principal payments on residential whole loans and \$58.2 million of proceeds

on sales of REO.

In connection with our repurchase agreement borrowings and Swaps, we routinely receive margin calls/reverse margin calls from our counterparties and make margin calls to our counterparties. Margin calls and reverse margin calls, which requirements vary over time, may occur daily between us and any of our counterparties when the value of collateral pledged changes from the amount contractually required. The value of securities pledged as collateral fluctuates reflecting changes in: (i) the face (or par) value of our MBS; (ii) market interest rates and/or other market conditions; and (iii) the market value of our Swaps. Margin calls/reverse margin calls are satisfied when we pledge/receive additional collateral in the form of additional securities and/or cash.

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The table below summarizes our margin activity with respect to our repurchase agreement financings for the quarterly periods presented:

For the Quarter Ended (1)	Collateral Pledged to Meet Margin Calls			Cash and Securities Received for Reverse Margin Calls	Net Assets Received/(Pledged) for Margin Activity
	Fair Value of Securities Pledged	Cash Pledged	Aggregate Assets Pledged For Margin Calls		
(In Thousands)					
June 30, 2018	\$ 44,278	\$ —	\$ 44,278	\$ 20,001	\$ (24,277 )
March 31, 2018	40,831	—	40,831	18,835	(21,996 )
December 31, 2017	87,960	—	87,960	80,105	(7,855 )
September 30, 2017	83,513	—	83,513	53,499	(30,014 )
June 30, 2017	106,432	500	106,932	75,996	(30,936 )

(1) Excludes variation margin payments on the Company's cleared Swaps which are treated as a legal settlement of the exposure under the Swap contract.

We are subject to various financial covenants under our repurchase agreements and derivative contracts, which include minimum net worth and/or profitability requirements, maximum debt-to-equity ratios and minimum market capitalization requirements. We have maintained compliance with all of our financial covenants through June 30, 2018.

During the six months ended June 30, 2018, we paid \$159.7 million for cash dividends on our common stock and dividend equivalents and paid cash dividends of \$7.5 million on our preferred stock. On June 7, 2018, we declared our second quarter 2018 dividend on our common stock of \$0.20 per share; on July 31, 2018, we paid this dividend, which totaled approximately \$79.9 million, including dividend equivalents of approximately \$241,000.

We believe that we have adequate financial resources to meet our current obligations, including margin calls, as they come due, to fund dividends we declare and to actively pursue our investment strategies. However, should the value of our MBS suddenly decrease, significant margin calls on our repurchase agreement borrowings could result and our liquidity position could be materially and adversely affected. Further, should market liquidity tighten, our repurchase agreement counterparties may increase our margin requirements on new financings, reducing our ability to use leverage. Access to financing may also be negatively impacted by the ongoing volatility in the world financial markets, potentially adversely impacting our current or potential lenders' ability or willingness to provide us with financing. In addition, there is no assurance that favorable market conditions will continue to permit us to consummate additional securitization transactions if we determine to seek that form of financing.

#### Off-Balance Sheet Arrangements

We have not participated in transactions that create relationships with unconsolidated entities or financial partnerships which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

#### Inflation



Substantially all of our assets and liabilities are financial in nature. As a result, changes in interest rates and other factors impact our performance far more than does inflation. Our results of operations and reported assets, liabilities and equity are measured with reference to historical cost or fair value without considering inflation.

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Item 3. Quantitative and Qualitative Disclosures About Market Risk.

We seek to manage our risks related to interest rates, liquidity, prepayment speeds, market value and the credit quality of our assets while, at the same time, seeking to provide an opportunity to stockholders to realize attractive total returns through ownership of our capital stock. While we do not seek to avoid risk, we seek, consistent with our investment policies, to: assume risk that can be quantified based on management's judgment and experience and actively manage such risk; earn sufficient returns to justify the taking of such risks; and maintain capital levels consistent with the risks that we undertake.

Interest Rate Risk

We generally acquire interest-rate sensitive assets and fund them with interest-rate sensitive liabilities, a portion of which are hedged with Swaps. We are exposed to interest rate risk on our residential mortgage assets, as well as on our liabilities. Changes in interest rates can affect our net interest income and the fair value of our assets and liabilities.

We finance the majority of our investments in residential mortgage assets with short-term repurchase agreements. In general, when interest rates change, the borrowing costs of our repurchase agreements (net of the impact of Swaps) change more quickly than the yield on our assets. In a rising interest rate environment, the borrowing costs of our repurchase agreements may increase faster than the interest income on our assets, thereby reducing our net income. In order to mitigate compression in net income based on such interest rate movements, we use Swaps to lock in a portion of the net interest spread between assets and liabilities.

When interest rates change, the fair value of our residential mortgage assets could change at a different rate than the fair value of our liabilities. We measure the sensitivity of our portfolio to changes in interest rates by estimating the duration of our assets and liabilities. Duration is the approximate percentage change in fair value for a 100 basis point parallel shift in the yield curve. In general, our assets have higher duration than our liabilities and in order to reduce this exposure we use Swaps to reduce the gap in duration between our assets and liabilities.

In calculating the duration of our Agency MBS we take into account the characteristics of the underlying mortgage loans including whether the underlying loans are fixed rate, adjustable or hybrid; coupon, expected prepayment rates and lifetime and periodic caps. We use third-party financial models, combined with management's assumptions and observed empirical data when estimating the duration of our Agency MBS.

In analyzing the interest rate sensitivity of our Legacy Non-Agency MBS we take into account the characteristics of the underlying mortgage loans, including credit quality and whether the underlying loans are fixed-rate, adjustable or hybrid. We estimate the duration of our Legacy Non-Agency MBS using management's assumptions.

The majority of our RPL/NPL MBS deal structures contain a contractual coupon step-up feature where the coupon increases up to 300 basis points at 36 months from issuance or sooner. Therefore, we believe their fair value exhibits little sensitivity to changes in interest rates. We estimate the duration of these securities using management's assumptions.

The fair value of our re-performing residential whole loans is dependent on the value of the underlying real estate collateral, past and expected delinquency status of the borrower as well as the level of interest rates. Because the borrower is not delinquent on their mortgage payments but is less likely to prepay the loan due to weak credit history and/or high LTV, we believe our re-performing residential whole loans exhibit positive duration. We estimate the duration of our re-performing residential whole loans using management's assumptions.

The fair value of our Non-QM loans and Single family rental loans are dependent on the value of the underlying real estate collateral, as well as the level of interest rates. Because these loans are primarily newly or recently originated performing loans, we believe these investments exhibit positive duration. Given the short duration of the Company's Rehabilitation loans, we believe the fair value of these loans exhibits little sensitivity to changes in interest rates. We estimate the duration of these other loans held at carrying value using management's assumptions.

The fair value of our non-performing residential whole loans is primarily dependent on the value of the underlying real estate collateral and the time required for collateral liquidation. Since neither the value of the collateral nor the liquidation timeline is generally sensitive to interest rates, we believe their fair value exhibits little sensitivity to interest rates. We estimate the duration of our non-performing residential whole loans using management's assumptions.

We use Swaps as part of our overall interest rate risk management strategy. Such derivative financial instruments are intended to act as a hedge against future interest rate increases on our repurchase agreement financings, which rates are typically highly

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correlated with LIBOR. While our derivatives do not extend the maturities of our borrowings under repurchase agreements, they do, in effect, lock in a fixed rate of interest over their term for a corresponding amount of our repurchase agreement financings that are hedged.

At June 30, 2018, MFA's \$4.7 billion of Agency MBS and Legacy Non-Agency MBS were backed by Hybrid, adjustable and fixed-rate mortgages. Additional information about these MBS, including average months to reset and three-month average CPR, is presented below:

Time to Reset	Agency MBS			Legacy Non-Agency MBS (1)			Total (1)		
	Fair Value (2)	Average 3 Months to Reset (3)	Month Average CPR (4)	Fair Value	Average 3 Months to Reset (3)	Month Average CPR (4)	Fair Value (2)	Average 3 Months to Reset (3)	Month Average CPR (4)
(Dollars in Thousands)									
< 2 years (5)	\$1,275,911	6	21.2 %	\$1,538,689	5	16.2 %	\$2,814,600	5	18.4 %
2-5 years	146,586	45	13.2	—	—	—	146,586	45	13.2
> 5 years	10,128	84	11.5	—	—	—	10,128	84	11.5
ARM-MBS Total	\$1,432,625	11	20.3 %	\$1,538,689	5	16.2 %	\$2,971,314	8	18.1 %
15-year fixed (6)	\$929,094		10.4 %	\$2,370		4.0 %	\$931,464		10.3 %
30-year fixed (6)	—		—	757,623		15.2	757,623		15.2
40-year fixed (6)	—		—	36,408		14.2	36,408		14.2
Fixed-Rate Total	\$929,094		10.4 %	\$796,401		15.1 %	\$1,725,495		12.6 %
MBS Total	\$2,361,719		16.2 %	\$2,335,090		15.8 %	\$4,696,809		16.0 %

(1) Excludes \$907.9 million of RPL/NPL MBS. Refer to table below for further information.

(2) Does not include principal payments receivable of \$1.2 million.

Months to reset is the number of months remaining before the coupon interest rate resets. At reset, the MBS (3) coupon will adjust based upon the underlying benchmark interest rate index, margin and periodic and/or lifetime caps. The months to reset do not reflect scheduled amortization or prepayments.

(4) 3 month average CPR weighted by positions as of the beginning of each month in the quarter.

(5) Includes floating-rate MBS that may be collateralized by fixed-rate mortgages.

(6) Information presented based on data available at time of loan origination.

The following table presents certain information about our RPL/NPL MBS portfolio at June 30, 2018:

	Fair Value	Net Coupon	Months to Step-Up (1)	3 Month Average Bond CPR (2)
(Dollars in Thousands)				
Re-Performing loans	\$7,945	3.88 %	26	86.1 %
Non-Performing loans	899,932	4.54	20	18.1
Total RPL/NPL MBS	\$907,877	4.53 %	20	20.4 %

(1) Months to step-up is the weighted average number of months remaining before the coupon interest rate increases pursuant to the first coupon reset. We anticipate that the securities will be redeemed prior to the step-up date.

(2) All principal payments are considered to be prepayments for CPR purposes.

At June 30, 2018, our CRT securities and MSR related assets had a fair value of \$572.0 million and \$381.4 million, respectively, and their coupons reset monthly based on one-month LIBOR.

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## Shock Table

The information presented in the following “Shock Table” projects the potential impact of sudden parallel changes in interest rates on our net interest income and portfolio value, including the impact of Swaps, over the next 12 months based on the assets in our investment portfolio at June 30, 2018. All changes in income and value are measured as the percentage change from the projected net interest income and portfolio value under the base interest rate scenario at June 30, 2018.

Change in Interest Rates	Estimated Value of Assets (1)	Estimated Value of Swaps	Estimated Value of Financial Instruments	Change in Estimated Value	Percentage Change in Net Interest Income	Percentage Change in Portfolio Value
(Dollars in Thousands)						
+100 Basis Point Increase	\$ 10,130,059	\$59,761	\$ 10,189,820	\$(124,151)	(3.80 )%	(1.20 )%
+ 50 Basis Point Increase	\$ 10,214,525	\$37,960	\$ 10,252,485	\$(61,486 )	(1.78 )%	(0.60 )%
Actual at June 30, 2018	\$ 10,297,811	\$ 16,160	\$ 10,313,971	\$—	—	—
- 50 Basis Point Decrease	\$ 10,379,916	\$(5,641 )	\$ 10,374,275	\$60,304	(0.24 )%	0.58 %
-100 Basis Point Decrease	\$ 10,460,840	\$(27,441 )	\$ 10,433,399	\$ 119,428	(0.70 )%	1.16 %

(1) Such assets include MBS and CRT securities, residential whole loans and REO, MSR related assets, cash and cash equivalents and restricted cash.

Certain assumptions have been made in connection with the calculation of the information set forth in the Shock Table and, as such, there can be no assurance that assumed events will occur or that other events will not occur that would affect the outcomes. The base interest rate scenario assumes interest rates at June 30, 2018. The analysis presented utilizes assumptions and estimates based on management’s judgment and experience. Furthermore, while we generally expect to retain the majority of our assets and the associated interest rate risk to maturity, future purchases and sales of assets could materially change our interest rate risk profile. It should be specifically noted that the information set forth in the above table and all related disclosure constitute forward-looking statements within the meaning of Section 27A of the 1933 Act and Section 21E of the 1934 Act. Actual results could differ significantly from those estimated in the Shock Table above.

The Shock Table quantifies the potential changes in net interest income and portfolio value, which includes the value of our Swaps (which are carried at fair value), should interest rates immediately change (i.e., are shocked). The Shock Table presents the estimated impact of interest rates instantaneously rising 50 and 100 basis points, and falling 50 and 100 basis points. The cash flows associated with our portfolio of MBS for each rate shock are calculated based on assumptions, including, but not limited to, prepayment speeds, yield on replacement assets, the slope of the yield curve and composition of our portfolio. Assumptions made with respect to the interest rate sensitive liabilities include anticipated interest rates, collateral requirements as a percent of repurchase agreement financings, and the amounts and terms of borrowing. At June 30, 2018, we applied a floor of 0% for all anticipated interest rates included in our assumptions. Due to this floor, it is anticipated that any hypothetical interest rate shock decrease would have a limited positive impact on our funding costs; however, because prepayments speeds are unaffected by this floor, it is expected that any increase in our prepayment speeds (occurring as a result of any interest rate shock decrease or otherwise) could result in an acceleration of premium amortization on our Agency MBS and discount accretion on our Non-Agency MBS and in the reinvestment of principal repayments in lower yielding assets. As a result, because the presence of this floor limits the positive impact of interest rate decrease on our funding costs, hypothetical interest rate shock decreases could cause a decline in the fair value of our financial instruments and our net interest income.

At June 30, 2018, the impact on portfolio value was approximated using estimated effective duration (i.e., the price sensitivity to changes in interest rates), including the effect of Swaps, of 1.19 which is the weighted average of 1.75 for our Agency MBS, 0.88 for our Non-Agency investments, 2.50 for our Residential whole loans, (1.67) for our Swaps, and 0.19 for our Other assets and cash and cash equivalents. Estimated convexity (i.e., the approximate change in duration relative to the change in interest rates) of the portfolio was (0.05), which is the weighted average of (0.20) for our Agency MBS, zero for our Swaps, zero for our Non-Agency MBS, zero for our Residential whole loans and zero for our Other assets and cash and cash equivalents. The impact on our net interest income is driven mainly by the difference between portfolio yield and cost of funding of our repurchase agreements, which includes the cost and/or benefit from Swaps. Our asset/liability structure is generally such that an increase in interest rates would be expected to result in a decrease in net interest income, as our borrowings are generally shorter in term than our interest-earning assets. When interest rates are shocked, prepayment assumptions are adjusted based on management's expectations along with the results from the prepayment model.

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Credit Risk

Although we do not believe that we are exposed to credit risk in our Agency MBS portfolio, we are exposed to credit risk through our credit-sensitive residential mortgage investments, in particular Legacy Non-Agency MBS and residential whole loans and to a lesser extent our investments in RPL/NPL MBS, CRT securities and MSR related assets. Our exposure to credit risk from our credit sensitive investments is discussed in more detail below:

Legacy Non-Agency MBS

Our investment process for Legacy Non-Agency MBS involves analysis focused primarily on quantifying and pricing credit risk. When we purchase Legacy Non-Agency MBS, we assign certain assumptions to each of the MBS, including but not limited to, future interest rates, voluntary prepayment rates, mortgage modifications, default rates and loss severities, and generally allocate a portion of the purchase discount as a Credit Reserve which provides credit protection for such securities. As part of our surveillance process, we review our Legacy Non-Agency MBS by tracking their actual performance compared to the securities' expected performance at purchase or, if we have modified our original purchase assumptions, compared to our revised performance expectations. To the extent that actual performance of a Legacy Non-Agency MBS is less favorable than its expected performance, we may revise our performance expectations. As a result, we could reduce the accretable discount on the security and/or recognize an other-than-temporary impairment through earnings, either of which could have a material adverse impact on our operating results.

In evaluating our asset/liability management and Legacy Non-Agency MBS credit performance, we consider the credit characteristics of the mortgage loans underlying our Legacy Non-Agency MBS. The following table presents certain information about our Legacy Non-Agency MBS portfolio at June 30, 2018. Information presented with respect to the weighted average Fair Isaac Corporation (or FICO) scores and other information aggregated based on information reported at the time of mortgage origination are historical and, as such, do not reflect the impact of the general changes in home prices or changes in borrowers' credit scores or the current use of the mortgaged properties.



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The information in the table below is presented as of June 30, 2018:

Year of Securitization (2) (Dollars in Thousands)	Securities with Average Loan FICO of 715 or Higher (1)			Securities with Average Loan FICO Below 715 (1)			Total	
	2007	2006	2005 and Prior	2007	2006	2005 and Prior		
Number of securities	84	61	82	32	57	65	381	
MBS current face (3)	\$696,816	\$411,701	\$436,047	\$157,071	\$399,145	\$408,669	\$2,509,449	
Total purchase discounts, net (3)	\$(213,994)	\$(123,724)	\$(90,883)	\$(52,707)	\$(156,082)	\$(116,578)	\$(753,968)	
Purchase discount designated as Credit Reserve and OTTI (3)(4)	\$(150,333)	\$(62,509)	\$(54,302)	\$(42,516)	\$(152,420)	\$(91,517)	\$(553,597)	
Purchase discount designated as Credit Reserve and OTTI as percentage of current face	21.6	% 15.2	% 12.5	% 27.1	% 38.2	% 22.4	% 22.1	%
MBS amortized cost (3)	\$482,822	\$287,977	\$345,164	\$104,364	\$243,063	\$292,091	\$1,755,481	
MBS fair value (3)	\$649,085	\$386,782	\$418,519	\$144,315	\$348,120	\$385,438	\$2,332,259	
Weighted average fair value to current face	93.2	% 93.9	% 96.0	% 91.9	% 87.2	% 94.3	% 92.9	%
Weighted average coupon (5)	4.34	% 3.73	% 4.06	% 5.07	% 5.10	% 4.82	% 4.44	%
Weighted average loan age (months) (5)(6)	134	143	158	139	145	158	146	
Weighted average current loan size (5)(6)	\$494	\$485	\$292	\$330	\$244	\$233	\$365	
Percentage amortizing (7)	100	% 99	% 100	% 99	% 99	% 100	% 100	%
Weighted average FICO score at origination (5)(8)	729	728	726	705	702	703	718	
Owner-occupied loans	91.1	% 91.6	% 86.6	% 85.2	% 86.6	% 85.3	% 88.4	%
Rate-term refinancings	30.8	% 22.3	% 14.4	% 22.6	% 15.4	% 14.7	% 20.9	%
Cash-out refinancings	35.1	% 35.7	% 27.9	% 44.2	% 45.8	% 39.6	% 36.9	%
3 Month CPR (6)	16.5	% 17.2	% 18.0	% 14.9	% 15.3	% 14.3	% 16.2	%
3 Month CRR (6)(9)	13.2	% 13.3	% 16.1	% 11.0	% 11.9	% 12.0	% 13.2	%
3 Month CDR (6)(9)	4.1	% 4.6	% 2.4	% 4.4	% 4.2	% 2.9	% 3.7	%
3 Month loss severity	45.3	% 54.2	% 43.5	% 61.2	% 64.5	% 62.2	% 53.7	%
60+ days delinquent (8)	12.0	% 10.5	% 9.3	% 14.5	% 13.2	% 11.6	% 11.6	%

Percentage of always current borrowers (Lifetime) (10)	28.5	% 29.0	% 37.1	% 25.5	% 21.6	% 26.7	% 28.5	%
Percentage of always current borrowers (12M) (11)	73.7	% 76.5	% 78.8	% 70.2	% 70.4	% 72.9	% 74.2	%

- (1) FICO score is used by major credit bureaus to indicate a borrower's creditworthiness at time of loan origination. Information presented based on the initial year of securitization of the underlying collateral. Certain of our Non-Agency MBS have been resecuritized. The historical information presented in the table is based on the initial securitization date and data available at the time of original securitization (and not the date of resecuritized). No information has been updated with respect to any MBS that have been resecuritized.
- (2) Excludes Non-Agency MBS issued since 2012 in which the underlying collateral consists of RPL/NPL MBS.
- (3) These Non-Agency MBS have a current face of \$909.3 million, amortized cost of \$907.5 million, fair value of \$907.9 million and purchase discounts of \$1.8 million at June 30, 2018.
- (4) Purchase discounts designated as Credit Reserve and OTTI are not expected to be accreted into interest income.
- (5) Weighted average is based on MBS current face at June 30, 2018.
- (6) Information provided is based on loans for individual groups owned by us.
- (7) Percentage of face amount for which the original mortgage note contractually calls for principal amortization in the current period.
- (8) Information provided is based on loans for all groups that provide credit enhancement for MBS with credit enhancement.
- (9) CRR represents voluntary prepayments and CDR represents involuntary prepayments.
- (10) Percentage of face amount of loans for which the borrower has not been delinquent since origination.
- (11) Percentage of face amount of loans for which the borrower has not been delinquent in the last twelve months.

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The mortgages securing our Legacy Non-Agency MBS are located in many geographic regions across the United States. The following table presents the five largest geographic concentrations by state of the mortgages collateralizing our Legacy Non-Agency MBS at June 30, 2018:

Property Location	Percent of Unpaid Principal Balance
California	42.2 %
Florida	8.0 %
New York	7.1 %
New Jersey	4.0 %
Maryland	4.0 %

## RPL/NPL MBS

These securities are backed by re-performing and non-performing loans, were purchased primarily at prices around par and represent the senior and mezzanine tranches of the related securitizations. The majority of these securities are structured with significant credit enhancement (typically approximately 50%) and the subordinate tranches absorb all credit losses (until those tranches are extinguished) and typically receive no cash flow (interest or principal) until the senior tranche is paid off. Prior to purchase, we analyze the deal structure in order to assess the associated credit risk. Subsequent to purchase, the ongoing credit risk associated with the deal is evaluated by analyzing the extent to which actual credit losses occur that result in a reduction in the amount of subordination enjoyed by our bond.

## CRT Securities

We are exposed to potential credit losses from our investments in CRT securities issued by Fannie Mae and Freddie Mac. While CRT securities are debt obligations of these GSEs, payment of principal on these securities is not guaranteed. As an investor in a CRT security, we may incur a loss if losses on the mortgage loans in the reference pool exceed the credit enhancement on the underlying CRT security owned by us. We assess the credit risk associated with our investments in CRT securities by assessing the current and expected future performance of the associated reference pool.

## MSR Related Assets

## Term Notes

We have invested in certain term notes that are issued by SPVs that have acquired rights to receive cash flows representing the servicing fees and/or excess servicing spread associated with certain MSRs. Payment of principal and interest on these term notes is considered by us to be largely dependent on the cash flows generated by the underlying MSRs as this impacts the cash flows available to the SPV that issued the term notes. Credit risk borne by the holders of the term notes is also mitigated by structural credit support in the form of over-collateralization. In addition, credit support is also provided by a corporate guarantee from the ultimate parent or sponsor of the SPV that is intended to provide for payment of interest and principal to the holders of the term notes should cash flows generated by the underlying MSRs be insufficient.

## Residential Whole Loans

We are also exposed to credit risk from our investments in residential whole loans. Our investment process for residential whole loans is generally similar to that used for Legacy Non-Agency MBS and is likewise focused on

quantifying and pricing credit risk. Consequently, the majority of these loans are acquired at purchase prices that are generally discounted (particularly for purchased credit impaired loans) to the contractual loan balances based on a number of factors, including the impaired credit history of the borrower and the value of the collateral securing the loan. In addition, as we generally own the master-servicing rights associated with loans in our portfolio, our process is also focused on selecting a sub-servicer with the appropriate expertise to mitigate losses and maximize our overall return. This involves, among other things, performing due diligence on the sub-servicer prior to their engagement as well as ongoing oversight and surveillance. To the extent that loan delinquencies and defaults are higher than our expectation at the time the loans were purchased, the discounted purchase price at which the asset is acquired is intended to provide a level of protection against financial loss.

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The following table presents the five largest geographic concentrations by state of our residential whole loan portfolio at June 30, 2018:

Property Location	Percent of Interest-Bearing Unpaid Principal Balance (1)	
California	27.4	%
New York	12.3	%
Florida	9.6	%
New Jersey	7.1	%
Maryland	4.3	%

(1) Excludes approximately \$506.9 million of residential whole loans for which the closing of the purchase transaction had not occurred as of June 30, 2018.

## Liquidity Risk

The primary liquidity risk we face arises from financing long-maturity assets with shorter-term borrowings primarily in the form of repurchase agreement financings. We pledge residential mortgage assets and cash to secure our repurchase agreements and Swaps. At June 30, 2018, we had access to various sources of liquidity which we estimate to be in excess of \$606.4 million, an amount which includes: (i) \$54.9 million of cash and cash equivalents, (ii) \$172.0 million in estimated financing available from unpledged Agency MBS and U.S. Treasury securities and other Agency MBS collateral that are currently pledged in excess of contractual requirements, and (iii) \$379.5 million in estimated financing available from currently unpledged Non-Agency MBS and from other Non-Agency MBS and CRT collateral that is currently pledged in excess of contractual requirements. Our sources of liquidity do not include restricted cash. In addition, we have \$877.1 million of unencumbered residential whole loans. We are evaluating potential opportunities to finance these assets including loan securitization. Should the value of our residential mortgage assets pledged as collateral suddenly decrease, margin calls under our repurchase agreements would likely increase, causing an adverse change in our liquidity position. Additionally, if one or more of our financing counterparties chose not to provide ongoing funding, our ability to finance our long-maturity assets would decline or be available on possibly less advantageous terms. As such, we cannot assure you that we will always be able to roll over our repurchase agreement financings. Further, should market liquidity tighten, our repurchase agreement counterparties may increase our margin requirements on new financings, including repurchase agreement borrowings that we roll with the same counterparty, reducing our ability to use leverage.

## Prepayment Risk

Premiums arise when we acquire an MBS or loan at a price in excess of the aggregate principal balance of the mortgages securing the MBS (i.e., par value) or when we acquire residential whole loans at a price in excess of their aggregate principal balance. Conversely, discounts arise when we acquire an MBS or loan at a price below the aggregate principal balance of the mortgages securing the MBS or when we acquire residential whole loans at a price below their aggregate principal balance. Premiums paid are amortized against interest income and accretable purchase discounts on these investments are accreted to interest income. Purchase premiums, which are primarily carried on our Agency MBS, certain CRT securities and Non-QM loans, are amortized against interest income over the life of the investment using the effective yield method, adjusted for actual prepayment activity. An increase in the prepayment rate, as measured by the CPR, will typically accelerate the amortization of purchase premiums, thereby reducing the interest income earned on these assets. Generally, if prepayments on Non-Agency MBS and residential whole loans purchased at significant discounts and not accounted for at fair value are less than anticipated, we expect

that the income recognized on these assets will be reduced and impairments and/or loan loss reserves may result.

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Item 4. Controls and Procedures

(a) Evaluation of Disclosure Controls and Procedures

Management, under the direction of its Chief Executive Officer and Chief Financial Officer, is responsible for maintaining disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the 1934 Act) that are designed to ensure that information required to be disclosed in reports filed or submitted under the 1934 Act is recorded, processed, summarized and reported within the time periods specified in SEC rules and forms and that such information is accumulated and communicated to management, including the Company's Chief Executive Officer and Chief Financial Officer, to allow timely decisions regarding required disclosures.

In connection with the preparation of this Quarterly Report on Form 10-Q, management reviewed and evaluated the Company's disclosure controls and procedures. The evaluation was performed under the direction of the Company's Chief Executive Officer and Chief Financial Officer to determine the effectiveness, as of June 30, 2018, of the design and operation of the Company's disclosure controls and procedures. Based on that review and evaluation, the Chief Executive Officer and the Chief Financial Officer have concluded that the Company's current disclosure controls and procedures, as designed and implemented, were effective as of June 30, 2018. Notwithstanding the foregoing, a control system, no matter how well designed, implemented and operated, can provide only reasonable, not absolute, assurance that it will detect or uncover failures within the Company to disclose material information otherwise required to be set forth in the Company's current periodic reports.

(b) Changes in Internal Control over Financial Reporting

There have been no changes in the Company's internal control over financial reporting that occurred during the quarter ended June 30, 2018 that materially affected, or are reasonably likely to materially affect, its internal control over financial reporting.

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PART II. OTHER INFORMATION

Item 1. Legal Proceedings

There are no material pending legal proceedings to which we are a party or any of our assets are subject.

Item 1A. Risk Factors

For a discussion of the Company's risk factors, see Part 1, Item 1A. "Risk Factors" of the Company's Annual Report on Form 10-K for the year ended December 31, 2017. There are no material changes from the risk factors set forth in such Annual Report on Form 10-K. However, the risks and uncertainties that the Company faces are not limited to those set forth in the Company's Annual Report on Form 10-K for the year ended December 31, 2017. Additional risks and uncertainties not currently known to the Company (or that it currently believes to be immaterial) may also adversely affect the Company's business and the trading price of our securities.

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

Purchases of Equity Securities

As previously disclosed, in August 2005, the Company's Board authorized a Repurchase Program, to repurchase up to 4.0 million shares of the Company's outstanding common stock under the Repurchase Program. The Board reaffirmed such authorization in May 2010. In December, 2013, the Company's Board increased the number of shares authorized for repurchase to an aggregate of 10.0 million shares (under which approximately 6.6 million shares remain available for repurchase). Such authorization does not have an expiration date and, at present, there is no intention to modify or otherwise rescind such authorization. Subject to applicable securities laws, repurchases of common stock under the Repurchase Program are made at times and in amounts as we deem appropriate (including, in our discretion, through the use of one or more plans adopted under Rule 10b-5-1 promulgated under the 1934 Act), using available cash resources. Shares of common stock repurchased by the Company under the Repurchase Program are cancelled and, until reissued by the Company, are deemed to be authorized but unissued shares of the Company's common stock. The Repurchase Program may be suspended or discontinued by the Company at any time and without prior notice.

The Company engaged in no share repurchase activity during the second quarter of 2018 pursuant to the Repurchase Program nor did it withhold any restricted shares (under the terms of grants under our Equity Plan) to offset tax withholding obligations that occur upon the vesting and release of restricted stock awards and/or RSUs.



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Item 3. Defaults Upon Senior Securities

None.

Item 4. Mine Safety Disclosures

None.

Item 5. Other Information

None.

Item 6. Exhibits

The list of exhibits required to be filed as exhibits to this report are listed on page E-1 hereof, under “Exhibit Index,” which is incorporated herein by reference.

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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.

Date: August 2, 2018 MFA FINANCIAL, INC.  
(Registrant)

By: /s/ Stephen D. Yarad  
Stephen D. Yarad  
Chief Financial Officer  
(Principal Financial Officer)

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EXHIBIT INDEX

The following exhibits are filed as part of this Quarterly Report:

Exhibit	Description
<u>10.1</u>	Amendment No. 1, dated March 28, 2018, to Employment Agreement, entered into as of November 4, 2016, by and between the Company and Craig L. Knutson (incorporated herein by reference to Exhibit 10.2 to the Company's Form 8-K, filed April 2, 2018 (Commission File No. 1-13991)).
<u>10.2</u>	Employment Agreement, entered into as of March 28, 2018, by and between the Company and Gudmundur Kristjansson (incorporated herein by reference to Exhibit 10.2 to the Company's Form 8-K, filed April 2, 2018 (Commission File No. 1-13991)).
<u>10.3</u>	Employment Agreement entered into as of March 28, 2018, by and between the Company and Bryan Wulfsohn (incorporated herein by reference to Exhibit 10.3 to the Company's Form 8-K, filed April 2, 2018 (Commission File No. 1-13991)).
<u>31.1</u>	Certification of the Chief Executive Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
<u>31.2</u>	Certification of the Chief Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
<u>32.1</u>	Certification of the Chief Executive Officer, 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 the Chief Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101.INS*	XBRL Instance Document
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document

\*These interactive data files are furnished and deemed not filed or part of a registration statement or prospectus for purposes of Sections 11 or 12 of the Securities Act of 1933, as amended, deemed not filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and otherwise are not subject to liability under those sections.