## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### FORM 8-K

#### **Current Report**

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report: November 20, 2018

### Two Harbors Investment Corp.

(Exact name of registrant as specified in its charter)

Maryland001-3450627-0312904(State or other jurisdiction of incorporation)(Commission File Number)(I.R.S. Employer Identification No.)

#### 575 Lexington Avenue, Suite 2930 New York, NY 10022

(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (612) 629-2500

Registrant's telephone number, including area code: (612) 629-2500							
Not Applicable (Former name or former address, if changed since last report)							
Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:							
☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)							
□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)							
□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))							
□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))							
Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).							
Emerging Growth Company							
f 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.							

#### Item 7.01 Regulation FD.

An investor presentation providing a business overview of Two Harbors Investment Corp. is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

The information in this Current Report, including Exhibit 99.1 attached hereto, is furnished pursuant to Item 7.01 of Form 8-K and shall not be deemed to be "filed" for any other purpose, including for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section. The information in Item 7.01 of this Current Report, including Exhibit 99.1, shall not be deemed incorporated by reference into any filing of the registrant under the Securities Act of 1933 or the Exchange Act, whether made before or after the date hereof, regardless of any general incorporation language in such filings (unless the registrant specifically states that the information or exhibit in this Item 7.01 is incorporated by reference).

### Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit

No. Description

99.1 <u>Third Quarter 2018 Investor Presentation.</u>

#### **SIGNATURES**

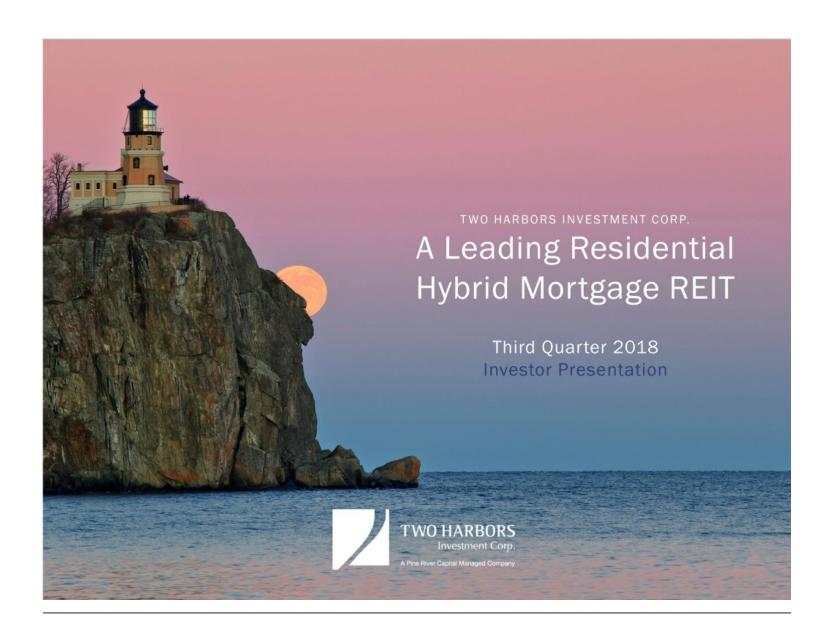
Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

TWO HARBORS INVESTMENT CORP.

By: /s/ REBECCA B. SANDBERG

Rebecca B. Sandberg General Counsel and Secretary

Date: November 20, 2018



### Safe Harbor Statement



#### FORWARD-LOOKING STATEMENTS

This presentation includes "forward-looking statements" within the meaning of the safe harbor provisions of the United States Private Securities Litigation Reform Act of 1995. Actual results may differ from expectations, estimates and projections and, consequently, readers should not rely on these forward-looking statements as predictions of future events. Words such as "expect," "farget," "assume," "estimate," "project," "budget," "forecast," "anticipate," "intend," "plan," "may," "will," "could," "should," "believe," "predicts," "potential," "continue," and similar expressions are intended to identify such forward-looking statements. These forwardlooking statements involve significant risks and uncertainties that could cause actual results to differ materially from expected results, including, among other things, those described in our Annual Report on Form 10-K for the year ended December 31, 2017, and any subsequent Quarterly Reports on Form 10-Q, under the caption "Risk Factors." Factors that could cause actual results to differ include, but are not limited to: the state of credit markets and general economic conditions; changes in interest rates and the market value of our assets; changes in prepayment rates of mortgages underlying our target assets; the rates of default or decreased recovery on the mortgages underlying our target assets; the occurrence, extent and timing of credit losses within our portfolio; the concentration of credit risks we are exposed to; declines in home prices; our ability to establish, adjust and maintain appropriate hedges for the risks in our portfolio; the availability and cost of our target assets; the availability and cost of financing; changes in the competitive landscape within our industry; our ability to effectively execute and to realize the benefits of strategic transactions and initiatives we have pursued or may in the future pursue; our acquisition of CYS and our ability to realize the benefits related thereto; our ability to manage various operational risks and costs associated with our business; interruptions in or impairments to our communications and information technology systems; our ability to acquire mortgage servicing rights (MSR) and successfully operate our seller-servicer subsidiary and oversee our subservicers; the impact of any deficiencies in the servicing or foreclosure practices of third parties and related delays in the foreclosure process; our exposure to legal and regulatory claims; legislative and regulatory actions affecting our business; the impact of new or modified government mortgage refinance or principal reduction programs; our ability to maintain our REIT qualification; and limitations imposed on our business due to our REIT status and our exempt status under the Investment Company Act of 1940.

Readers are cautioned not to place undue reliance upon any forward-looking statements, which speak only as of the date made. Two Harbors does not undertake or accept any obligation to release publicly any updates or revisions to any forward-looking statement to reflect any change in its expectations or any change in events, conditions or circumstances on which any such statement is based. Additional information concerning these and other risk factors is contained in Two Harbors' most recent fillings with the Securities and Exchange Commission (SEC). All subsequent written and oral forward-looking statements concerning Two Harbors or matters attributable to Two Harbors or any person acting on its behalf are expressly qualified in their entirety by the cautionary statements above.

This presentation may include industry and market data obtained through research, surveys, and studies conducted by third parties and industry publications. We have not independently verified any such market and industry data from third-party sources. This presentation is provided for discussion purposes only and may not be relied upon as legal or investment advice, nor is it intended to be inclusive of all the risks and uncertainties that should be considered. This presentation does not constitute an offer to purchase or sell any securities, nor shall it be construed to be indicative of the terms of an offer that the parties or their respective affiliates would accept.

Readers are advised that the financial information in this presentation is based on company data available at the time of this presentation and, in certain circumstances, may not have been audited by the company's independent auditors.

## Two Harbors Investment Corp. Overview<sup>(1)</sup>



### A LEADING RESIDENTIALLY-FOCUSED HYBRID MORTGAGE REIT

- Proven stability in book value, especially during volatile periods
- Sophisticated and differentiated approach to risk management and hedging

### \$3.7 billion market capitalization

our inception(3)

\$4.7 billion total stockholders' equity

\$27.7 billion hybrid portfolio comprised of Rates and Credit strategies(2)

### 210% total stockholder return since

11.9% substantial book value growth since our inception(4)

### 18%

lower book value volatility compared to mortgage REIT average since our

### **KEY DIFFERENTIATING FACTORS**

Strategy of pairing MSR with Agency RMBS

Utilize variety of instruments to hedge interest rate exposure

#### Unique portfolio of legacy non-Agency securities

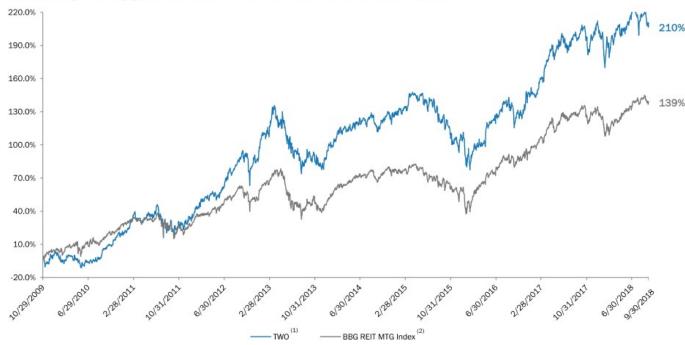
- 1) Except as otherwise indicated in this presentation, reported data is as of or for the period ended September 30, 2018.
- Assets in "Rates" include Agency RMBS, MSR and other interest rate sensitive assets. Assets in "Credit" include non-Agency securities and other credit sensitive assets.

  Two Harbors' total stockholder return calculated for the period October 29, 2009 through September 30, 2018. Total stockholder return is defined as stock price appreciation including
- dividends. Source: Bloomberg.
- 4) Book value growth and volatility since our inception is measured from December 31, 2009 or the peer company's inception, whichever is later, through September 30, 2018. Two Harbors quarterly book values have been adjusted for each quarter from Q1 2013 forward to include \$1.88 of stock distributions associated with the special dividend of Silver Bay Reality Trust ("Silver Bay") and, beginning in Q4 2017, \$3.67 of stock distributions associated with the special dividend of Granite Point Mortgage Trust Inc. ("Granite Point") common stock. Peer mortgage REITs 3 include AGNC, ANH, ARR, CIM, CMO, IVR, MFA, MITT, NLY and NYMT. Peer book value figures are based on publicly reported data and have not been adjusted for the return of capital from dividends, if any, to peer stockholders during the same period. Book value volatility calculated by dividing the standard deviation of book values in the measured period by the average book value from the measured period.

# Substantial Total Stockholder Return Outperformance



- · Outperformed peer group by over 70% since our inception
- Delivered total stockholder return of 210% during that time<sup>(1)</sup>
  - Bloomberg REIT Mortgage Index total stockholder return of 139% over the same period of time<sup>(2)</sup>



Two Harbors' total stockholder return is calculated for the period October 29, 2009 through September 30, 2018. Total stockholder return is defined as stock price appreciation including dividends. Source: Bloomberg.

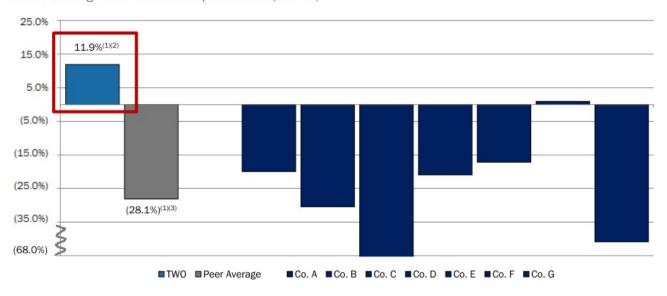
Bloomberg REIT Mortgage Index total stockholder return for the period October 29, 2009 through September 30, 2018. The Bloomberg REIT Mortgage Index tracks publicly traded REITs whose principal business consists of originating, servicing or investing in residential mortgage interests. The index uses a modified market capitalization weighted methodology, and components are reviewed quarterly for eligibility. Source: Bloomberg.

## Proven Book Value Stability...



### **BOOK VALUE STABILITY AND GROWTH**

- · Book value has grown by 11.9% since our inception through September 30, 2018, when adjusted to include the value of the Granite Point and Silver Bay stock distributions to Two Harbors stockholders (1)(2)
- Peer average over same time period was (28.1%)<sup>(1)(3)</sup>



- 1) Book value growth since our inception is measured from December 31, 2009 through September 30, 2018.
- Two Harbors quarterly book values have been adjusted for each quarter from Q1 2013 forward to include \$1.88 of stock distributions associated with the special dividend of Silver 5 Bay common stock and, beginning in Q4 2017, \$3.67 of stock distributions associated with the special dividend of Granite Point common stock.

  Companies A-G and peer average represent comparable mortgage REIT peers. Peer average book value figures are based on publicly reported data and have not been adjusted for
- the return of capital from dividends, if any, to peer stockholders during the same period.

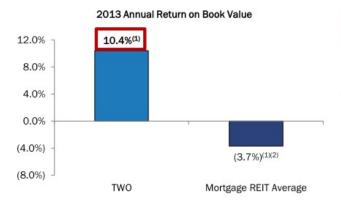
# ...Particularly Through Volatile Times



### REFLECTS SOPHISTICATED APPROACH TO RISK MANAGEMENT AND HEDGING

 Proven stability of book value through times of volatility: in the 2013 "taper tantrum" Two Harbors outperformed its peers by over 1,400 basis points<sup>(1)(2)</sup>

 Importantly, these results were achieved with significantly less book value volatility than comparable mortgage REIT peers



	Mortgage REIT Average <sup>(2)</sup>	TWO <sup>(4)</sup>	Difference
Book value volatility since our inception <sup>(3)</sup>	11.4%	9.4%	18% lower
Book value volatility in 2013 <sup>(3)</sup>	8.3%	2.9%	65% lower
Book value volatility in 2016 <sup>(3)</sup>	3.3%	1.5%	54% lower

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<sup>1)</sup> Return on book value for 2013 measured from 12/31/2012 to 12/31/2013.

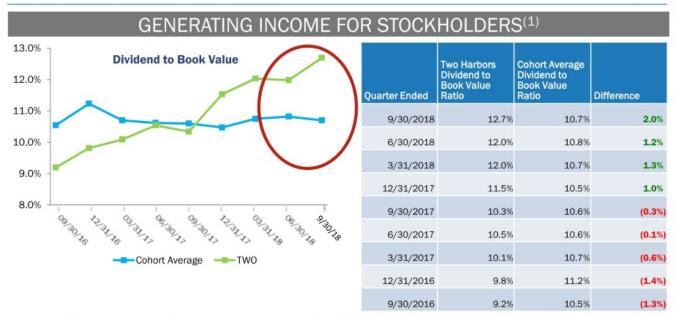
Mortgage REITs include AGNC, ANH, ARR, CIM, CMO, IVR, MFA, MITT, NLY and NYMT. Mortgage REIT average book value figures are based on publicly reported data and have not been adjusted for the return of capital from dividends, if any, to peer stockholders during the same period.

<sup>3)</sup> Book value volatility since our inception is measured from 12/31/2009 or the company's inception, whichever is later, through 9/30/2018. Book value volatility for 2013 is measured from 12/31/2012 to 12/31/2013 and for 2016 is measured from 12/31/2015 through 12/31/2016. Book value volatility calculated by dividing the standard deviation of book values in the measured period by the average book value from the measured period.

<sup>4)</sup> Two Harbors quarterly book values have been adjusted for each quarter from Q1 2013 forward to include \$1.88 of stock distributions associated with the special dividend of Silver Bay common stock and, beginning in Q4 2017, \$3.67 of stock distributions associated with the special dividend of Granite Point common stock.







- ✓ Discontinued mortgage loan conduit in 2016, reducing operating complexity and costs
- Formed and spun out Granite Point Mortgage Trust (NYSE: GPMT) in 2017 to better reflect the embedded value of the commercial business that we established in 2015
- Acquired CYS Investments, Inc. in 2018, growing market capitalization and equity base, increasing liquidity of stock and driving expense ratio lower

<sup>(1)</sup> Source: Bloomberg. "Cohort" mortgage REITs include AGNC, ANH, ARR, CIM, CMO, CYS (through Q2-2018), IVR, MFA, MITT, NLY, NYMT, WMC. Cohort average book value figures are based on publicly reported data and have not been adjusted for the return of capital from dividends, if any, to peer stockholders during the time periods.

## CYS Portfolio Reallocation Momentum



## TREMENDOUS PROGRESS ON DEPLOYING CAPITAL FROM CYS ACQUISITION

- Reallocating capital from Agencies to MSR and non-Agency securities
  - Post quarter-end, closed two substantial bulk MSR transactions totaling approximately \$25 billion unpaid principal balance (UPB)
  - Adding \$100-200 million per month of discounted legacy non-Agencies to existing portfolio
- Maintaining low level of risk exposures to rates, curve and spread changes
  - Addition of MSR reduces Agency mortgage spread risk

	March 31, 2018	June 30, 2018	July 31, 2018	September 30, 2018	November 1, 2018	Expected Allocation Trend <sup>(1)</sup>
Rates	69%	68%	77%	76%	74%	↓
Agency	50%	44%	59%	57%	51%	↓
MSR	19%	24%	18%	19%	23%	<b>↑</b> ↑
Credit	31%	32%	23%	24%	26%	1

<sup>(1)</sup> Expected capital allocation trends are illustrative and reflect the company's current expectations based on a variety of market, economic and regulatory factors. Actual portfolio composition and allocation strategies may differ materially.

# Protecting Book Value and Income



Active management of risk positioning drives stability through periods of market volatility

HEDGING ACROSS THE CURVE					
Book value exposure to	changes in rates <sup>1)</sup>	Net interest income exposu	re to changes in rates at <sup>(2)</sup>		
+25 basis points	(1.0%)	+25 basis points	3.2%		
+50 basis points	(2.9%)	+50 basis points	6.4%		

BOOK VALUE SENSITIVITY TO MORTGAGE SPREADS <sup>(3)</sup>					
Mortgage spreads	Change in Agency RMBS and mortgage derivatives	Change in MSR	Total overall Rates strategy change		
25 basis points increase	(\$303)	\$56	(\$247) / (5.3%)		
15 basis points increase	(\$179)	\$34	(\$145) / (3.1%)		
15 basis points decrease	\$169	(\$38)	\$131 / 2.8%		
25 basis points decrease	\$273	(\$64)	\$209 / 4.5%		



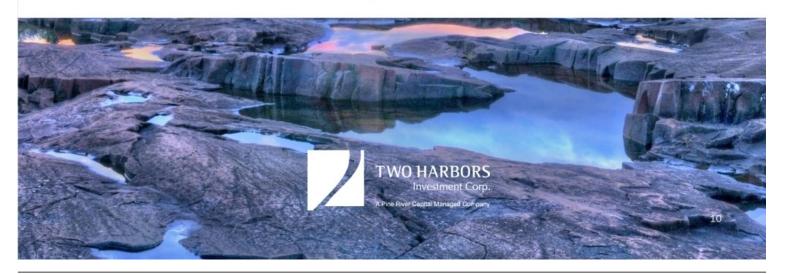
Note: The above scenario is provided for illustration purposes only and is not necessarily indicative of Two Harbors' financial condition and operating results, nor is it necessarily indicative of the financial condition or results of operations that may be expected for any future period or date.

<sup>(1)</sup> Represents estimated change in equity value for theoretical parallel shift in interest rates.
(2) Represents estimated percentage change in net interest income for theoretical parallel shifts in interest rates. Amounts include the effect of interest spread from our interest rate swaps and caps and float income from custodial accounts associated with our MSR, but do not reflect any potential changes to dollar roll income associated with our TBA positions, which are accounted for as derivative instruments in accordance with GAAP.

<sup>(3)</sup> Dollars in millions. The information presented in this table projects the potential impact on book value of instantaneous changes in mortgage spreads. Spread sensitivity is based on results from third party models in conjunction with inputs from our internal investment professionals. Actual results could differ materially from these estimates.



**Appendix** 



# Rates: Agency RMBS Metrics

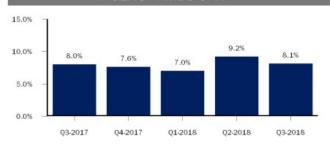


### AGENCY PORTFOLIO YIELDS AND METRICS

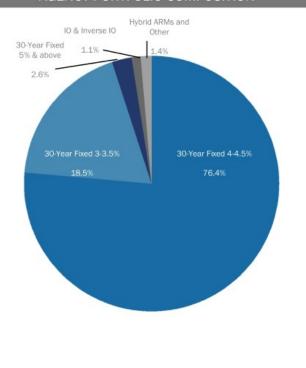
Portfolio Yield	Realized Q2- 2018	At June 30, 2018	Realized Q3- 2018	At September 30, 2018
Agency yield	3.0%	3.1%	3.1%	3.4%
Repo and FHLB costs	(2.0%)	(2.1%)	(2.3%)	(2.3%)
Swap and cap income	0.3%	0.3%	0.3%	0.4%
Net interest spread	1.3%	1.3%	1.1%	1.5%

Portfolio Metrics	Q2-20 <b>1</b> 8	Q3-2018
Weighted average 3-month CPR <sup>(1)</sup>	9.2%	8.1%
Weighted average cost basis(2)	\$106.7	\$105.2

### AGENCY RMBS CPR(1)



### AGENCY PORTFOLIO COMPOSITION



<sup>(1)</sup> Agency weighted average 3-month Constant Prepayment Rate (CPR) includes IIOs (or Agency Derivatives).

<sup>(2)</sup> Weighted average cost basis includes RMBS principal and interest securities only. Average purchase price utilized carrying value for weighting purposes.

# Rates: Agency RMBS



As of September 30, 2018	Par Value (\$M)	Market Value (\$M)	% Prepay Protected <sup>(1)</sup>	Amortized Cost Basis (\$M)	Weighted Average Coupon	Weighted Average Age (Months)
30-Year fixed						
3.0-3.5%	\$4,164	\$4,108	72.1%	\$4,270	3.5%	21
4.0-4.5%	16,559	16,954	84.4%	17,445	4.2%	21
≥ 5.0%	531	570	100.0%	570	5.3%	58
	21,254	21,632	82.5%	22,285	4.1%	22
Hybrid ARMs	18	20	-%	19	5.2%	175
Other	294	283	0.3%	290	4.7%	146
IOs and IIOs	3,728	251 (2)	-%	292	2.6%	111
Total Agency holdings	\$25,294	\$22,186	80.4%	\$22,886		
Net TBA notional	9,324					
Total	\$34,618					

Includes securities with implicit or explicit protection including lower loan balances (securities collateralized by loans less than or equal to \$175K of initial principal balance), higher LTVs (securities collateralized by loans with greater than or equal to 80% LTV), certain geographic concentrations and lower FICO scores.
 Represents market value of \$183.6 million of IOs and \$67.0 million of Agency Derivatives.

# Rates: Mortgage Servicing Rights<sup>(1)</sup>



	As of June 30, 2018	As of September 30, 2018
Fair value (\$M)	\$1,450.3	\$1,664.0
Unpaid principal balance (\$M)	\$119,531.6	\$131,114.5
Weighted average coupon	4.0%	4.1%
Original FICO score <sup>(2)</sup>	752	751
Original LTV	74%	74%
60+ day delinquencies	0.4%	0.4%
Net servicing spread	25.5 basis points	25.7 basis points
Vintage:		
Pre-2013	10.6%	9.4%
2013-2016	22.4%	20.19
Post-2016	67.0%	70.5%

Excludes residential mortgage loans for which the company is the named servicing administrator.
 FICO represents a mortgage industry accepted credit score of a borrower.

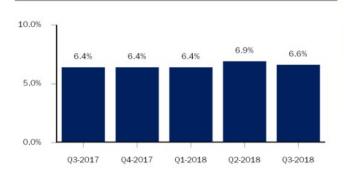
# Credit: Non-Agency Securities Metrics



## NON-AGENCY PORTFOLIO YIELDS AND METRICS

Portfolio Yield	Realized Q2- 2018	At June 30, 2018	Realized Q3- 2018	At September 30, 2018
Non-Agency yield	8.1%	7.5%	7.4%	7.2%
Repo and FHLB costs	(3.5%)	(3.6%)	(3.6%)	(3.6%)
Swap and cap income	0.1%	0.3%	0.1%	0.1%
Net interest spread	4.7%	4.2%	3.9%	3.7%

## LEGACY NON-AGENCY CPR



## LEGACY NON-AGENCY PORTFOLIO COMPOSITION

June 30, 2018	September 30, 2018
75%	75%
11%	11%
1170	A-A-70
1%	1%
13%	13%
Q2-2018	Q3-2018
6.9%	6.6%
\$61.2	\$61.7
	75% 11% 1% 13% Q2-2018

<sup>(1)</sup> Weighted average cost basis includes legacy non-Agency principal and interest securities only. Average purchase price utilized carrying value for weighting purposes, total legacy non-Agency securities excluding the company's non-Agency interest-only portfolio would have been \$58.95 at September 30, 2018.

# Credit: Legacy Non-Agency Securities



As of September 30, 2018	Senior Bonds	Mezzanine Bonds	Total P&I
Portfolio characteristics:			
Carrying value (\$M)	\$2,719.6	\$844.9	\$3,564.5
% of non-Agency portfolio	76.3%	23.7%	100.0%
Average purchase price <sup>(1)</sup>	\$60.53	\$65.35	\$61.68
Average coupon	3.1%	2.9%	3.1%
Weighted average market price <sup>(2)</sup>	\$70.50	\$83.99	\$73.29
Collateral attributes:			
Average loan age (months)	145	154	147
Average loan size (\$K)	\$378	\$381	\$378
Average original Loan-to-Value	67.8%	67.3%	67.7%
Average original FICO <sup>(3)</sup>	618	576	608
Current performance:			
60+ day delinquencies	20.2%	17.8%	19.6%
Average credit enhancement <sup>(4)</sup>	5.4%	16.4%	8.0%
3-Month CPR <sup>(5)</sup>	6.2%	8.0%	6.6%

<sup>(1)</sup> Average purchase price utilized carrying value for weighting purposes. If current face were utilized for weighting purposes, the average purchase price for senior, mezzanine and total legacy non-Agency securities, excluding our non-Agency interest-only portfolio, would have been \$57.96, \$62.77 and \$58.95, respectively.

(2) Weighted average market price utilized current face for weighting purposes.

(3) FICO represents a mortgage industry accepted credit score of a borrower.

(4) Average purchase price utilized current face for weighting purposes.

(5) 3-Month CPR is reflective of the prepayment speed on the underlying securitization; however, it does not necessarily indicate the proceeds received on our investment tranche. Proceeds received for each security are dependent on the position of the individual security within the structure of each deal.

# Financing

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\$ in millions	25						
Outstanding Borrowings and Maturities <sup>(1)</sup>		Repurchase Agreements	FHLB Advances	Revolving Credit Facilities	Convertible Notes	Total Outstanding Borrowings	Percent (%)
Within 30 days	\$	6,910.6	\$ _	\$ _	\$ - \$	\$ 6,910.6	27.3%
30 to 59 days		2,465.3	-	-	-	2,465.3	9.8%
60 to 89 days		5.0	_	20.0	_	25.0	0.1%
90 to 119 days		5,536.0	-	_	_	5,536.0	21.9%
120 to 364 days		8,689.7	815.0	_	_	9,504.7	37.6%
One to three years		200.0	_	-	_	200.0	0.8%
Three to five years		_	_	290.0	283.6	573.6	2.3%
Five to ten years		-	-	-	-	-	-%
Ten years and over <sup>(2)</sup>			50.0	_	_	50.0	0.2%
	\$	23,806.6	\$ 865.0	\$ 310.0	\$ 283.6	\$ 25,265.2	100.0%
Collateral Pledged for Borrowings <sup>(3)</sup>		Repurchase Agreements <sup>(4</sup>	FHLB Advances	Revolving Credit Facilities <sup>(4</sup>	Convertible Notes	Total Collateral Pledged	Percent (%)
Available-for-sale securities, at fair value <sup>(5)</sup>	\$	24,779.7	\$ 913.6	\$ _	n/a	\$ 25,693.3	95.2%
Derivative assets, at fair value		67.0	-	-	n/a	67.0	0.3%
Mortgage servicing rights, at fair value		733.2	_	488.5	n/a	1,221.7	4.5%
	\$	25,579.9	\$ 913.6	\$ 488.5	n/a	\$ 26,982.0	100.0%

Weighted average of 4.6 months to maturity.
 Includes FHLB advances of \$50 million with original maturities of 20 years.
 Excludes FHLB membership and activity stock totaling \$40.8 million.
 Repurchase agreements and/or revolving credit facilities secured by MSR may be over-collateralized due to operational considerations.
 Includes unsettled sales of AFS securities included in due from counterparties on the condensed consolidated balance sheet.

# Interest Rate Swaps and Caps



## INTEREST RATE SWAPS

Maturities	Notional Amounts (\$B) <sup>(1)</sup>	Average Fixed Pay Rate <sup>(2)</sup>	Average Receive Rate <sup>(2)</sup>	Average Maturity Years <sup>(2)</sup>
Payers			·	
2018	\$1.0	1.008%	2.336%	0.0
2019	4.3	1.769%	2.336%	1.0
2020	5.2	1.705%	2.334%	2.1
2021	4.1	1.550%	2.362%	2.9
2022 and after	8.8	2.309%	2.343%	7.1
	\$23.4	1.876%	2.343%	3.8
Maturities	Notional Amounts (\$B)	Average Pay Rate	Average Fixed Receive Rate	Average Maturity (Years)

Maturities	Notional Amounts (\$B)	Average Pay Rate	Average Fixed Receive Rate	Average Maturity (Years)
Receivers				
2020	\$0.2	2.347%	2.258%	1.3
2021	2.5	2.338%	2.736%	2.5
2022 and after	4.4	2.333%	2.696%	7.3
	\$7.1	2.335%	2.694%	5.4

## INTEREST RATE CAPS

Swaps Maturities	Notional Amount (\$B)	Weighted Average Cap Rate	Weighted Average Receive Rate	Weighted Average Maturity (Years)
2019	\$0.8	1.344%	2.339%	0.8
2020	1.7	1.250%	2.364%	1.5
Total	\$2.5	1.280%	2.356%	1.3

Notional amount includes \$0.6 billion in forward starting interest rate swaps as of September 30, 2018.
 Weighted averages exclude forward starting interest rate swaps. As of September 30, 2018, the weighted average fixed pay rate on interest rate swaps was 2.8%.

# Interest Rate Swaptions



				Underlying S	Swap			
Swaption	Expiration	Cost (\$M)	Fair Value (\$M)	Average Months to Expiration	Notional Amount (\$M)	Average Pay Rate	Average Receive Rate	Average Term (Years)
Purchase Contracts:								
Payer	<6 Months	\$9.4	\$30.6	3.6	\$5,225	3.20%	3M LIBOR	7.6
Sale Contracts:								
Receiver	<6 Months	(\$9.7)	(\$5.7)	3.9	(\$5,061)	3M LIBOR	2.70%	7.7

