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**PennyMac Mortgage Investment Trust Prices Public Offering
of 8.125 Percent Series A Fixed-to-Floating Rate
Cumulative Redeemable Preferred Shares**

Westlake Village, CA, March 2, 2017 – PennyMac Mortgage Investment Trust (NYSE: PMT) (the “Company”) today announced the pricing of its underwritten public offering of 4,600,000 of its 8.125 percent Series A Fixed-to-Floating Rate Cumulative Redeemable Preferred Shares of Beneficial Interest (the “Series A Preferred Shares”), liquidation preference \$25.00 per share, for gross proceeds of \$115 million, before deducting underwriting discounts and commissions and other estimated offering expenses. The Company intends to apply to list the Series A Preferred Shares on the New York Stock Exchange under the symbol “PMT PrA.” The offering is expected to close on March 9, 2017, subject to customary closing conditions.

The Company has granted the underwriters an option for 30 days to purchase up to an additional 690,000 Series A Preferred Shares to cover over-allotments, if any.

Dividends on the Series A Preferred Shares will accumulate and be payable from, and including, the date of original issuance to, but not including, March 15, 2024, at a fixed rate equal to 8.125 percent per annum of the \$25.00 liquidation preference. From, and including, March 15, 2024, dividends on the Series A Preferred Shares will accumulate and be payable at a floating rate equal to three-month LIBOR plus a spread of 5.831 percent per annum based on the \$25.00 per share liquidation preference.

The Company intends to use the net proceeds of the offering to fund its business and investment activities, for the repayment of indebtedness, to repurchase outstanding common shares pursuant to its share repurchase program, and for other general corporate purposes.

Morgan Stanley & Co. LLC, Keefe, Bruyette & Woods, Inc. and RBC Capital Markets, LLC are acting as joint book-running managers for the offering.

This offering is being made pursuant to an effective shelf registration statement and prospectus and related prospectus supplement, a copy of which, when available, may be obtained by contacting Morgan Stanley & Co. LLC, toll-free at (800) 584-6837 or by e-mail at prospectus@morganstanley.com, Keefe, Bruyette & Woods, Inc., toll-free at (800) 966-1559, or RBC Capital Markets, LLC, toll-free at (866) 375-6829 or by e-mail at rbcnyfixedincomeprospectus@rbccm.com.

This press release shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities, in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

About PennyMac Mortgage Investment Trust

PennyMac Mortgage Investment Trust is a mortgage real estate investment trust (REIT) that invests primarily in residential mortgage-related assets. PennyMac Mortgage Investment Trust trades on the New York Stock Exchange under the symbol “PMT” and is externally managed by PNMAC Capital Management, LLC, an indirect subsidiary of PennyMac Financial Services, Inc. (NYSE: PFSI).

This press release contains forward-looking statements within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, regarding management’s beliefs, estimates, projections and assumptions with respect to, among other things, the Company’s financial results, future operations, business plans and investment strategies, as well as industry and market conditions, all of which are subject to change. Words like “believe,” “expect,” “anticipate,” “promise,” “plan,” and other expressions or words of similar meanings, as well as future or conditional verbs such as “will,” “would,” “should,” “could,” or “may” are generally intended to identify forward-looking statements. Actual results and operations for any future period may vary materially from those projected herein and from past results discussed herein. Factors which could cause actual results to differ materially from historical results or those

anticipated include, but are not limited to: changes in our investment objectives or investment or operational strategies, including any new lines of business or new products and services that may subject us to additional risks; volatility in our industry, the debt or equity markets, the general economy or the real estate finance and real estate markets specifically, whether the result of market events or otherwise; events or circumstances which undermine confidence in the financial markets or otherwise have a broad impact on financial markets, such as the sudden instability or collapse of large depository institutions or other significant corporations, terrorist attacks, natural or man-made disasters, or threatened or actual armed conflicts; changes in general business, economic, market, employment and political conditions, or in consumer confidence and spending habits from those expected; declines in real estate or significant changes in U.S. housing prices or activity in the U.S. housing market; the availability of, and level of competition for, attractive risk-adjusted investment opportunities in mortgage loans and mortgage-related assets that satisfy our investment objectives; the inherent difficulty in winning bids to acquire mortgage loans, and our success in doing so; the concentration of credit risks to which we are exposed; the degree and nature of our competition; our dependence on our manager and servicer, potential conflicts of interest with such entities and their affiliates, and the performance of such entities; changes in personnel and lack of availability of qualified personnel at our manager, servicer or their affiliates; the availability, terms and deployment of short-term and long-term capital; the adequacy of our cash reserves and working capital; our ability to maintain the desired relationship between our financing and the interest rates and maturities of our assets; the timing and amount of cash flows, if any, from our investments; unanticipated increases or volatility in financing and other costs, including a rise in interest rates; the performance, financial condition and liquidity of borrowers; the ability of our servicer, which also provides us with fulfillment services, to approve and monitor correspondent sellers and underwrite loans to investor standards; incomplete or inaccurate information or documentation provided by customers or counterparties, or adverse changes in the financial condition of our customers and counterparties; our indemnification and repurchase obligations in connection with mortgage loans we purchase and later sell or securitize; the quality and enforceability of the collateral documentation evidencing our ownership and rights in the assets in which we invest; increased rates of delinquency, default and/or decreased recovery rates on our investments; the performance of mortgage loans underlying mortgage-backed securities in which we retain credit risk; our ability to foreclose on our investments in a timely manner or at all; increased prepayments of the mortgages and other loans underlying our mortgage-backed securities or relating to our mortgage servicing rights, excess servicing spread and other investments; the degree to which our hedging strategies may or may not protect us from interest rate volatility; the effect of the accuracy of or changes in the estimates we make about uncertainties, contingencies and asset and liability valuations when measuring and reporting upon our financial condition and results of operations; our failure to maintain appropriate internal controls over financial reporting; technologies for loans and our ability to mitigate security risks and cyber intrusions; our ability to obtain and/or maintain licenses and other approvals in those jurisdictions where required to conduct our business; our ability to detect misconduct and fraud;

our ability to comply with various federal, state and local laws and regulations that govern our business; developments in the secondary markets for our mortgage loan products; legislative and regulatory changes that impact the mortgage loan industry or housing market; changes in regulations or the occurrence of other events that impact the business, operations or prospects of government agencies or government-sponsored entities, or such changes that increase the cost of doing business with such entities; the Dodd-Frank Wall Street Reform and Consumer Protection Act and its implementing regulations and regulatory agencies, and any other legislative and regulatory changes that impact the business, operations or governance of mortgage lenders and/or publicly-traded companies; the Consumer Financial Protection Bureau and its issued and future rules and the enforcement thereof; changes in government support of homeownership; changes in government or government-sponsored home affordability programs; limitations imposed on our business and our ability to satisfy complex rules for us to qualify as a real estate investment trust (REIT) for U.S. federal income tax purposes and qualify for an exclusion from the Investment Company Act of 1940 and the ability of certain of our subsidiaries to qualify as REITs or as taxable REIT subsidiaries for U.S. federal income tax purposes, as applicable, and our ability and the ability of our subsidiaries to operate effectively within the limitations imposed by these rules; changes in governmental regulations, accounting treatment, tax rates and similar matters (including changes to laws governing the taxation of REITs, or the exclusions from registration as an investment company); our ability to make distributions to our shareholders in the future; the effect of public opinion on our reputation; the occurrence of natural disasters or other events or circumstances that could impact our operations; and our organizational structure and certain requirements in our charter documents. You should not place undue reliance on any forward-looking statement and should consider all of the uncertainties and risks described above, as well as those more fully discussed in reports and other documents filed by the Company with the Securities and Exchange Commission from time to time. The Company undertakes no obligation to publicly update or revise any forward-looking statements or any other information contained herein, and the statements made in this press release are current as of the date of this release only.

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