PennyMac Mortgage Investment Trust

Form 4

February 27, 2017

| FORM 4 | | | OMB APPROVAL | | | | |
|--|---|----------|--|---|------------------------|----------------------|--|
| _ | UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 | | | | | 3235-0287 | |
| See Instruction 1(b). | Expires: Estimated a burden hou response | 9 | | | | | |
| (Print or Type Respon | | | | | | | |
| Name and Address of Reporting Person * Grogin Jeffrey | | | Issuer Name and Ticker or Trading Symbol | Reporting Person(s) to | | | |
| | | | PennyMac Mortgage Investment Trust [PMT] | (Check | (Check all applicable) | | |
| (Last) (l | First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) | DirectorX Officer (give | title Othe | Owner er (specify | |
| C/O PENNYMA INVESTMENT T TOWNSGATE R | ΓRUST, 3 | | 02/23/2017 | below) CALC | below) and Secretary | | |
| (Street) | | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | |

Filed(Month/Day/Year)

WESTLAKE VILLAGE, CA 91361

| (City) | (State) | (Zip) Tabl | e I - Non-I | Derivative | Secu | rities Acquir | ed, Disposed of, | or Beneficiall | y Owned |
|---|---|---|--|-------------------------|-------------------------------|----------------------|--|--|---|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transactic Code (Instr. 8) | omr Dispo (Instr. 3, | esed of 4 and (A) or | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| Common Shares of Beneficial Interest | 02/23/2017 | | A | 5,281 (1) | A | \$ 0 | 41,171 (2) | D | |
| Common Shares of Beneficial Interest | 02/24/2017 | | S | 1,538 (3) | D | \$ 16.8902 (4) | 39,633 (5) | D | |
| Common Shares of | 02/24/2017 | | S | 1,826 (6) | D | \$ 16.8763 | 37,807 (8) | D | |

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting Beneficial (7)
Interest

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 4. Transact Code (Instr. 8) | 5. ionNumber of Derivativ Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | . | ate | 7. Title Amount Underly Securiti (Instr. 3 | t of ring es | 8. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr |
|---|---|--------------------------------------|--------------------------------------|---|---------------------|--------------------|--|--------------------|---|---|
| | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title N | Number | | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

CALO and Secretary

Grogin Jeffrey C/O PENNYMAC MORTGAGE INVESTMENT TRUST 3043 TOWNSGATE ROAD WESTLAKE VILLAGE, CA 91361

Signatures

/s/ Derek W. Stark, attorney-in-fact for Mr. Grogin

02/27/2017

**Signature of Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

The Reporting Person was granted 5,281 restricted share units. The restricted share units, which vest in three equal annual installments (1) beginning on the first anniversary of the grant date, are to be settled in an equal number of common shares of beneficial interest upon vesting.

(2)

Reporting Owners 2

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The reported amount consists of 29,441 restricted share units and 11,730 common shares of beneficial interest. The restricted share units are to be settled in an equal number of common shares of beneficial interest upon vesting.

- (3) The common shares of beneficial interest were sold pursuant to a 10b5-1 plan.
- The price reported is the weighted average price of multiple transactions ranging from \$16.83 to \$16.97. The reporting person hereby (4) undertakes to provide upon request to the SEC, the Issuer or a security holder of the Issuer the number of common shares of beneficial
- interest and the prices at which the transactions were effected.
- (5) The reported amount consists of 29,441 restricted share units and 10,192 common shares of beneficial interest. The restricted share units are to be settled in an equal number of common shares of beneficial interest upon vesting.
- (6) The common shares of beneficial interest were sold pursuant to a 10b5-1 plan.
- The price reported is the weighted average price of multiple transactions ranging from \$16.84 to \$16.97. The reporting person hereby undertakes to provide upon request to the SEC, the Issuer or a security holder of the Issuer the number of common shares of beneficial interest and the prices at which the transactions were effected.
- (8) The reported amount consists of 29,441 restricted share units and 8,366 common shares of beneficial interest. The restricted share units are to be settled in an equal number of common shares of beneficial interest upon vesting.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.