

Holmes Scott A
 Form 4
 September 13, 2012

FORM 4

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Holmes Scott A

2. Issuer Name and Ticker or Trading Symbol
 AMAG PHARMACEUTICALS INC. [AMAG]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
 09/12/2012

____ Director
 Officer (give title below)
 ____ 10% Owner
 ____ Other (specify below)
 Chief Accounting Officer

C/O AMAG
 PHARMACEUTICALS, INC., 100
 HAYDEN AVENUE

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

LEXINGTON, MA 02421

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) Code V Amount Price | | | |
| Common Stock | 09/12/2012 | | C | 750 ⁽¹⁾ A ₍₂₎ | 750 | D | |
| Common Stock | 09/12/2012 | | S ⁽³⁾ | 750 D \$ 15.54 | 0 | D | |

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

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 (9-02)

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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) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|
| Restricted Stock Unit | (4) | 09/12/2012 | | C | 750 | (5) (2) | Common Stock | 750 (2) |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|--------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Holmes Scott A C/O AMAG PHARMACEUTICALS, INC. 100 HAYDEN AVENUE LEXINGTON, MA 02421 | | | Chief Accounting Officer | |

Signatures

Nancy R. Smith,
attorney-in-fact

09/13/2012

**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).
- (1) The shares were acquired by the reporting person as a result of the partial vesting of a restricted stock unit grant described below.
- (2) Not applicable.
- (3) The sale reported on this Form 4 was effected pursuant to a 10b5-1 trading plan adopted by the reporting person.
- (4) Each restricted stock unit represents a contingent right to receive one share of common stock.
- (5) Grant of restricted stock unit pursuant to the AMAG Pharmaceuticals, Inc. Second Amended and Restated 2007 Equity Incentive Plan. This grant vests in four equal installments on September 12, 2012, September 12, 2013, September 12, 2014 and September 12, 2015.

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.