

Bonventre Joseph Vincent  
 Form 4  
 May 27, 2010

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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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 \*  
 Bonventre Joseph Vincent

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)  
 05/25/2010

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

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                            | (D) | Price |

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

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SEC 1474 (9-02)

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

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| 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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| Stock Options                              | \$ 31.32   | 05/25/2010                           |  | A                              | 5,000   | (1) 05/25/2011   | Common Stock 5,000  |
| Restricted Stock Unit                      | (3)  | 05/25/2010                           |  | A                              | 2,500   | (4) (5)  | Common Stock 2,500  |

Reporting Owners

Reporting Owner Name / Address

Relationships

|  | Director | 10% Owner | Officer | Other |
|--|----------|-----------|---------|-------|
| Bonventre Joseph Vincent<br>C/O AMAG PHARMACEUTICALS, INC.<br>100 HAYDEN AVENUE<br>LEXINGTON, MA 02421 | X        |           |         |       |

Signatures

Joseph L. Farmer, attorney-in-fact 05/27/2010

\*\*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) Grant of stock option pursuant to the AMAG Pharmaceuticals, Inc. Second Amended and Restated 2007 Equity Incentive Plan. This option will vest and become exercisable in twelve equal monthly installments over one year from the date of grant.

(2) Price is not applicable.

(3) Each restricted stock unit represents a contingent right to receive one share of the Issuer's common stock.

(4) Grant of restricted stock unit pursuant to the AMAG Pharmaceuticals, Inc. Second Amended and Restated 2007 Equity Incentive Plan. This grant will vest in equal monthly installments over one year from the date of grant; however, delivery of the shares is deferred until the earlier of (a) three years from the date of grant or (b) the date the reporting person no longer serves as a member of the Board of Directors of AMAG Pharmaceuticals Inc.

(5) Not applicable.

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.