AMAG PHARMACEUTICALS INC.

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Form SC 13G/A
December 10, 2009
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SCHEDULE 13G
Amendment No. 4
AMAG PHARMACEUTICALS INC
Common Stock
Cusip #00163U106
Cusip #00163U106
Item 1: Reporting Person - FMR LLC
Item 4: Delaware
Item 5: 110,880
Item 6: 0
Item 7: 2,131,880
Item 8: 0
Item 9: 2,131,880
Item 11: 12.443%
Item 12:
Cusip #00163U106
Item 1: Reporting Person - Edward C. Johnson 3d
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 2,131,880
Item 8: 0
Item 9: 2,131,880
SCHEDULE 13G - TO BE INCLUDED IN
STATEMENTS
       FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)
Item 1(a).
              Name of Issuer:
               AMAG PHARMACEUTICALS INC
Item 1(b).
               Name of Issuer's Principal Executive Offices:
               125 Cambridge Park Drive
               6th Floor
               Cambridge, MA 02140
Item 2(a).
               Name of Person Filing:
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Address or Principal Business Office or, if None,

FMR LLC

Item 2(b).

Residence:

82 Devonshire Street, Boston,

Massachusetts 02109

Item 2(c). Citizenship:

Not applicable

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

00163U106

Item 3. This statement is filed pursuant to Rule 13d-1(b) or 13d-2(b) and the person filing, FMR LLC, is a parent holding company in accordance with Section 240.13d-1(b) (ii) (G). (Note: See Item 7).

Item 4. Ownership

- (a) Amount Beneficially Owned: 2,131,880
- (b) Percent of Class: 12.443%
- (c) Number of shares as to which such person has:
- (i) sole power to vote or to direct the vote: 110,880
- $\hspace{1cm} \mbox{(ii)} \hspace{0.5cm} \mbox{shared power to vote or to} \\ \mbox{direct the vote:} \hspace{0.5cm} \mbox{0}$
- (iii) sole power to dispose or to direct the disposition of: 2,131,880
- (iv) shared power to dispose or to direct the disposition of: $\ 0$

Item 5. Ownership of Five Percent or Less of a Class.

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Common Stock of AMAG
PHARMACEUTICALS INC. No one person's interest in the Common Stock of AMAG PHARMACEUTICALS INC is more than five percent of the total outstanding Common Stock.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

See attached Exhibit A.

Item 8. Identification and Classification of Members of the Group.

Not applicable. See attached Exhibit A.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purpose or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

December 08, 2009 Date

/s/ Scott C. Goebel Signature

Scott C. Goebel
Duly authorized under Power of Attorney
effective as of June 1, 2008 by and on behalf of FMR LLC
and its direct and indirect subsidiaries

SCHEDULE 13G - TO BE INCLUDED IN STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Pursuant to the instructions in Item 7 of Schedule 13G, Fidelity Management & Research Company ("Fidelity"), 82
Devonshire Street, Boston, Massachusetts 02109, a whollyowned subsidiary of FMR LLC and an investment adviser
registered under Section 203 of the Investment Advisers Act
of 1940, is the beneficial owner of 2,014,210 shares or
11.756% of the Common Stock outstanding of AMAG
PHARMACEUTICALS INC ("the Company") as a result of
acting as investment adviser to various investment companies
registered under Section 8 of the Investment Company Act of
1940.

Edward C. Johnson 3d and FMR LLC, through its control of Fidelity, and the funds each has sole power to dispose of the 2,014,210 shares owned by the Funds.

Members of the family of Edward C. Johnson 3d,

Chairman of FMR LLC, are the predominant owners, directly or through trusts, of Series B voting common shares of FMR LLC, representing 49% of the voting power of FMR LLC. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B voting common shares will be voted in accordance with the majority vote of Series B voting common shares. Accordingly, through their ownership of voting common shares and the execution of the shareholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR LLC.

Neither FMR LLC nor Edward C. Johnson 3d, Chairman of FMR LLC, has the sole power to vote or direct the voting of the shares owned directly by the Fidelity Funds, which power resides with the Funds' Boards of Trustees. Fidelity carries out the voting of the shares under written guidelines established by the Funds' Boards of Trustees.

Pyramis Global Advisors, LLC ("PGALLC"), 900
Salem Street, Smithfield, Rhode Island, 02917, an indirect
wholly-owned subsidiary of FMR LLC and an investment
adviser registered under Section 203 of the Investment
Advisers Act of 1940, is the beneficial owner of 63,730 shares
or 0.372% of the outstanding Common Stock of AMAG
PHARMACEUTICALS INC as a result of its serving as
investment adviser to institutional accounts, non-U.S. mutual
funds, or investment companies registered under Section 8 of
the Investment Company Act of 1940 owning such shares.

Edward C. Johnson 3d and FMR LLC, through its control of PGALLC, each has sole dispositive power over 63,730 shares and sole power to vote or to direct the voting of 63,730 shares of Common Stock owned by the institutional accounts or funds advised by PGALLC as reported above.

Pyramis Global Advisors Trust Company ("PGATC"), 900 Salem Street, Smithfield, Rhode Island, 02917, an indirect wholly-owned subsidiary of FMR LLC and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934, is the beneficial owner of 53,940 shares or 0.315% of the outstanding Common Stock of the AMAG PHARMACEUTICALS INC as a result of its serving as investment manager of institutional accounts owning such shares.

Edward C. Johnson 3d and FMR LLC, through its control of Pyramis Global Advisors Trust Company, each has sole dispositive power over 53,940 shares and sole power to vote or to direct the voting of 47,150 shares of Common Stock owned by the institutional accounts managed by PGATC as reported above.

SCHEDULE 13G - TO BE INCLUDED IN

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b) RULE 13d-1(f)(1) AGREEMENT

The undersigned persons, on December 08, 2009, agree

and consent to the joint filing on their behalf of this Schedule 13G in connection with their beneficial ownership of the Common Stock of AMAG PHARMACEUTICALS INC at November 30, 2009.

FMR LLC

By /s/ Scott C. Goebel Scott C. Goebel

Duly authorized under Power of Attorney effective as of June 1, 2008, by and on behalf of FMR LLC and its direct and indirect subsidiaries ${\sf SMR}$

Edward C. Johnson 3d

By /s/ Scott C. Goebel

Scott C. Goebel

Duly authorized under Power of Attorney effective as of June 1, 2008, by and on behalf of Edward C. Johnson 3d $\,$

Fidelity Management & Research Company

By /s/ Scott C. Goebel Scott C. Goebel Senior V.P. and General Counsel