

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

SCHEDULE 13G

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT  
TO RULE 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED  
PURSUANT TO RULE 13d-2(b)

(AMENDMENT NO. 11)\*

AMAG Pharmaceuticals, Inc.  
(Name of Issuer)

Common Stock  
(Title of Class of Securities)

00163U106  
(CUSIP Number)

December 31, 2019  
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant  
to which this Schedule is filed:

Rule 13d-1(b)  
 Rule 13d-1(c)  
 Rule 13d-1(d)

\* The remainder of this cover page shall be filled out  
for a reporting person's initial filing on this form  
with respect to the subject class of securities,  
and for any subsequent amendment containing  
information which would alter disclosures  
provided in a prior cover page.

The information required on the remainder of  
this cover page shall not be deemed to be  
"filed" for the purpose of Section 18 of the  
Securities Exchange Act of 1934 ("Act") or  
otherwise subject to the liabilities of that  
section of the Act but shall be subject to  
all other provisions of the Act  
(however, see the Notes).

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1.  
NAMES OF REPORTING PERSONS OR  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Patrick Lee, MD

2.  
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
(see instructions)

(a)   
(b)

3.  
SEC USE ONLY

4.  
CITIZENSHIP OR PLACE OF ORGANIZATION  
USA

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5.  
SOLE VOTING POWER

691

6.  
SHARED VOTING POWER

3,044,374

7.  
SOLE DISPOSITIVE POWER

691

8.  
SHARED DISPOSITIVE POWER

3,044,374

9.  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,045,065

10.  
CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(see instructions) [ ]

11.  
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.98%

12.  
TYPE OF REPORTING PERSON (see instructions)

IN, HC

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1.  
NAMES OF REPORTING PERSONS OR  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Anthony Joonkyoo Yun, MD

2.  
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
(see instructions)

(a) [ ]

(b) [ x ]

3.  
SEC USE ONLY

4.  
CITIZENSHIP OR PLACE OF ORGANIZATION  
USA

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5.  
SOLE VOTING POWER

0

6.  
SHARED VOTING POWER

3,044,374

7.  
SOLE DISPOSITIVE POWER

0

8.  
SHARED DISPOSITIVE POWER

3,044,374

9.  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,044,374

10.  
CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(see instructions) [ ]

11.  
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.98%

12.  
TYPE OF REPORTING PERSON (see instructions)

IN, HC

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1.  
NAMES OF REPORTING PERSONS OR  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Palo Alto Investors LP

2.  
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
(see instructions)

(a) [ ]

(b) [ x ]

3.  
SEC USE ONLY

4.  
CITIZENSHIP OR PLACE OF ORGANIZATION  
California

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5.  
SOLE VOTING POWER

0

6.  
SHARED VOTING POWER

3,044,374

7.  
SOLE DISPOSITIVE POWER

0

8.  
SHARED DISPOSITIVE POWER

3,044,374

9.  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,044,374

10.  
CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(see instructions) [ ]

11.  
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.98%

12.  
TYPE OF REPORTING PERSON (see instructions)

OO, IA

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1.  
NAMES OF REPORTING PERSONS OR  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

PAI LLC

2.  
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
(see instructions)

(a) [ ]

(b) [ x ]

3.  
SEC USE ONLY

4.  
CITIZENSHIP OR PLACE OF ORGANIZATION  
California

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5.  
SOLE VOTING POWER

0

6.  
SHARED VOTING POWER

3,044,374

7.  
SOLE DISPOSITIVE POWER

0

8.  
SHARED DISPOSITIVE POWER

3,044,374

9.  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,044,374

10.  
CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(see instructions) [ ]

11.  
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.98%

12.  
TYPE OF REPORTING PERSON (see instructions)

OO, IA

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1.  
NAMES OF REPORTING PERSONS OR  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Palo Alto Healthcare Master Fund II, L.P.

2.  
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  
(see instructions)

(a) [ ]

(b) [ x ]

3.  
SEC USE ONLY

4.  
CITIZENSHIP OR PLACE OF ORGANIZATION  
Cayman Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH  
5.

SOLE VOTING POWER

0

6.  
SHARED VOTING POWER

1,863,117

7.  
SOLE DISPOSITIVE POWER

0

8.  
SHARED DISPOSITIVE POWER

1,863,117

9.  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,863,117

10.  
CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(see instructions) [ ]

11.  
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.49%

12.  
TYPE OF REPORTING PERSON (see instructions)

PN

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Item 1.

(a)  
Name of Issuer

AMAG Pharmaceuticals, Inc.

(b)  
Address of Issuers Principal Executive Offices

1100 Winter Street, Waltham, MA 02451

Item 2.

(a)  
Name of Person Filing

Palo Alto Investors LP (PAI)  
PAI LLC (PAI GP)  
Patrick Lee, MD  
Anthony Joonkyoo Yun, MD  
Palo Alto Healthcare Master Fund II, L.P. ("Healthcare Master II")  
(collectively, the "Filers").

(b)

The address of the principal place of  
the Filers except for Healthcare Master  
II is located at:

470 University Avenue, Palo Alto, CA 94301

The principal business office of Healthcare Master II is located at:

Cayman Corporate Centre, 27 Hospital Road  
George Town, Grand Cayman KY1-9008  
Cayman Islands

(c)

For citizenship of Filers, see Item 4 of the cover sheet for each Filer.

(d)

Title of Class of Securities

Common Stock

(e)

CUSIP Number

00163U106

Item 3. If this statement is filed pursuant  
to 240.13d-1(b) or 240.13d-2(b) or  
(c), check whether the person filing is a:

(a)

Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).

(b)

Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).

(c)

Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).

(d)

]

Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).

(e)

]

An investment adviser in accordance with 240.13d-1(b)(1)(ii)(E); (as to PAI)

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(f)

]

An employee benefit plan or endowment fund in accordance with 240.13d-1(b)(1)(ii)(F);

(g)

]

A parent holding company or control person in accordance with 240.13d-1(b)(1)(ii)(G); (as to Dr. Lee and Dr. Yun)

(h)

]

A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);

(i)

]

A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);

(j)

]

Group, in accordance with 240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

See Items 5-9 and 11 of the cover page for each Filer.

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



N/A

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

PAI is a registered investment adviser and investment adviser of investment limited partnerships, and is the investment adviser to other investment funds. PAI GP is the general partner of investment limited partnerships. PAI's clients have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Stock.

No individual client outside of Healthcare Master II separately holds more than five percent of the outstanding Stock.

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

N/A

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

Dr. Lee and Dr. Yun co-manage PAI. The Filers are filing this Schedule 13G jointly, but not as members of a group, and each of them expressly disclaims membership in a group. Each Filer disclaims beneficial ownership of the Stock except to the extent of that Filers pecuniary interest therein.

Schedule 13G on behalf of Healthcare Master II should not be construed as an admission that any of them is, and each disclaims that it is, a beneficial owner, as defined in Rule 13d-3 under the Securities Exchange Act of 1934, of any of the Stock covered by this Schedule 13G.

Item 9. Notice of Dissolution of Group.

N/A

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Item 10. Certification.

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

Exhibits.

Exhibit A Joint Filing Agreement.

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.

Dated: February 14, 2020

PALO ALTO HEALTHCARE MASTER FUND II, L.P.

By: PAI LLC, General Partner

PALO ALTO INVESTORS LP

By: /s/ Angela Nguyen-Dinh, Chief Compliance Officer

PAI LLC

By: /s/ Patrick Lee, MD

/s/ Patrick Lee, MD

/s/ Anthony Joonkyoo Yun, MD

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EXHIBIT A  
AGREEMENT REGARDING JOINT FILING  
OF STATEMENT ON SCHEDULE 13D OR 13G

The undersigned agree to file jointly with the Securities and Exchange Commission (the "SEC") any and all statements on Schedule 13D or Schedule 13G (and any amendments or supplements thereto) required under section 13(d) of the Securities Exchange Act of 1934, as amended, in connection with purchases and sales by the undersigned of the securities of any issuer until such time as the undersigned file with the SEC a statement terminating this Agreement Regarding Joint Filing of Statement on Schedule 13D or 13G. For that purpose, the undersigned hereby constitute and appoint Palo Alto Investors, LP, a California limited partnership, as their true and lawful agent and attorney-in-fact, with full power and authority for and on behalf of the undersigned to prepare or cause to be prepared, sign, file with the SEC and furnish to any other person all certificates, instruments, agreements and documents necessary to comply with section 13(d) and section 16(a) of the Securities Exchange Act of 1934, as amended, in connection with said purchases and sales, and to do and perform every act necessary and proper to be done incident to the exercise of the foregoing power, as fully as the undersigned might or could do if personally present, until such time as the undersigned file with the SEC a statement terminating this Agreement Regarding Joint Filing of Statement on Schedule 13D or 13G.

Dated: February 14, 2020

PALO ALTO HEALTHCARE MASTER FUND II, L.P.

By: PAI LLC, General Partner

PALO ALTO INVESTORS LP

By: /s/ Angela Nguyen-Dinh, Chief Compliance Officer

PAI LLC

By: /s/ Patrick Lee, MD

/s/ Patrick Lee, MD

/s/ Anthony Joonkyoo Yun, MD