ALNYLAM PHARMACEUTICALS, INC.

Form 4

September 17, 2014

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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obligations may continue. See Instruction

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * Vaishnaw Akshay | | | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer | | | | |
|---|------------|----------|--|---|--|--|--|--|
| | | | ALNYLAM PHARMACEUTICALS, INC. | (Check all applicable) | | | | |
| | | | [ALNY] | Director 10% Owner | | | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) | X Officer (give title Other (specify below) EVP, Chief Medical Officer | | | | |
| 300 THIRD STREET | | | 09/16/2014 | , | | | | |
| (Street) | | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | | |
| | | | Filed(Month/Day/Year) | Applicable Line) | | | | |
| CAMBRID | GE, MA 021 | 39 | | _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | |

09/16/2014

| (City) | (State) | (Zip) Tab | le I - Non-l | Derivative | e Secu | rities Acqui | red, Disposed of, | or Beneficial | y 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) | | sed 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 Stock | 09/16/2014 | | M(1) | 1,875 | A | \$ 9.14 | 1,875 | D | |
| Common Stock | 09/16/2014 | | M(1) | 6,250 | A | \$ 9.3 | 8,125 | D | |
| Common Stock | 09/16/2014 | | M <u>(1)</u> | 2,500 | A | \$ 7.1 | 10,625 | D | |
| Common Stock | 09/16/2014 | | S(1) | 3,200 | D | \$ 71.3359 | 7,425 | D | |

6,625 D

S⁽¹⁾

(2)

800

D

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| Common Stock | | | | | \$ 72.2666 (3) | | | | |
|---|------------|------|-------------------------------|--|----------------------|----|--------------------|--------------------------|--|
| Common Stock | 09/16/2014 | S(1) | 800 | D | \$ 73.0275 (4) | 0 | D | | |
| Common Stock | | | | | | 71 | I | By Managed Account | |
| Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. | | | | | | | | | |
| | | | Pers infor requ disp | 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) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number omf 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. l De Sec (In |
|---|---|---|---|---|--|--|-----------------|---|--|--------------------------|
| | | | | Code V | (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Stock Option (Right to Buy) | \$ 7.1 | 09/16/2014 | | M <u>(1)</u> | 2,500 | <u>(6)</u> | 11/30/2021 | Common Stock | 2,500 | |
| Stock Option (Right to Buy) | \$ 9.14 | 09/16/2014 | | M <u>(1)</u> | 1,875 | <u>(6)</u> | 12/08/2020 | Commn Stock | 1,875 | |
| Stock Option (Right to Buy) | \$ 9.3 | 09/16/2014 | | M <u>(1)</u> | 6,250 | <u>(6)</u> | 06/09/2021 | Common Stock | 6,250 | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Vaishnaw Akshay 300 THIRD STREET CAMBRIDGE, MA 02139

EVP, Chief Medical Officer

Signatures

/s/ Michael P. Mason, Attorney-in-Fact for Akshay K. Vaishnaw

09/17/2014

**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 sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 15, 2013.
- (2) Sale prices ranged from \$70.73 to \$71.72.
- (3) Sale prices ranged from \$71.75 to \$72.69.
- (4) Sale prices ranged from \$72.78 to \$73.24.
- (5) The reporting person owns 71 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- (6) The stock option vested as to 25% of the shares on the 1st anniversary of the date of the stock option grant and vests as to an additional 6.25% of the shares each successive three month period thereafter.

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.

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