Vaishnaw Akshay Form 4 December 10, 2010

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB** 

**OMB APPROVAL** 

3235-0287 Number:

Expires:

(Check all applicable)

SVP, Clinical Research

January 31, 2005

Estimated average burden hours per

response... 0.5

10% Owner

if no longer subject to Section 16. Form 4 or Form 5

obligations

Check this box

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

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \* 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Vaishnaw Akshay Issuer

Symbol **ALNYLAM** 

PHARMACEUTICALS, INC.

[ALNY]

\_X\_\_ Officer (give title Other (specify (Last) (First) (Middle) 3. Date of Earliest Transaction below) below)

(Month/Day/Year) 12/08/2010

(Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

> Filed(Month/Day/Year) Applicable Line)

\_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

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

Director

CAMBRIDGE, MA 02139

(City)

(State)

(Zip)

300 THIRD STREET

1.Title of 2. Transaction Date 2A. Deemed 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Beneficially Beneficial Code Disposed of (D) (D) or (Instr. 8) (Instr. 3, 4 and 5) Owned Indirect (I) Ownership (Month/Day/Year) Following (Instr. 4) (Instr. 4) Reported

(A) Transaction(s) or

(Instr. 3 and 4) Code V Amount (D) Price

by Common I 1,383

Managed Stock Account (1)

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

Persons who respond to the collection of **SEC 1474** information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

### Edgar Filing: Vaishnaw Akshay - Form 4

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. Transactic Code (Instr. 8)	5. Number of orDerivative 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 9.14	12/08/2010		A	30,000	(2)	12/08/2020	Common Stock	30,000

# **Reporting Owners**

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Vaishnaw Akshay			SVP,			
300 THIRD STREET			Clinical			
CAMBRIDGE, MA 02139			Research			

# **Signatures**

/s/ Patricia L. Allen, Attorney-in-Fact for Akshay K. Vaishnaw 12/10/2010

\*\*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) The reporting person owns 1,383 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- (2) The stock option vests as to 25% of the shares on the 1st anniversary of the stock option grant and as to an additional 6.25% of the shares on 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.

Reporting Owners 2