SHARP PHILIP A

Form 4

January 24, 2013

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

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if no longer

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

See Instruction

1(b).

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *

SHARP PHILIP A

2. Issuer Name and Ticker or Trading

Symbol

ALNYLAM

PHARMACEUTICALS, INC.

X_ Director

10% Owner

[ALNY]

(Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year)

01/22/2013

Officer (give title Other (specify below)

5. Relationship of Reporting Person(s) to

(Check all applicable)

300 THIRD STREET

(Street)

(State)

01/22/2013

4. If Amendment, Date Original Filed(Month/Day/Year)

 $P^{(1)}$

6. Individual or Joint/Group Filing(Check Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Issuer

(City)

CAMBRIDGE, MA 02142

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

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

(Zip)

4. Securities Acquired Transaction(A) or Disposed of (D) (Instr. 3, 4 and 5) Code (Instr. 8)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect Beneficial (D) or Indirect (I) Ownership (Instr. 4) (Instr. 4)

Reported Transaction(s) (Instr. 3 and 4)

or (D) Price

20.13

(A)

Amount

14,269

D

I

Stock

Stock

Common

Common

4,967

252,630

by Trust

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

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SEC 1474 (9-02)

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

1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exer		7. Title		8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate Amou		nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secur
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivative		e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired (A) or						Follo
											Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3, 4, and 5)						
									Amount		
						Date Expir Exercisable Date	Expiration		or		
							*	Title	Number		
							Date		of		
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

10% Owner Officer Other Director

SHARP PHILIP A 300 THIRD STREET X CAMBRIDGE, MA 02142

Signatures

By: /s/ Michael P. Mason, Attorney-in-Fact For: Phillip A. 01/24/2013 Sharp

> **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).
- The purchase reported on this Form 4 was made by the reporting person in connection with the Company's underwritten public offering of common stock.

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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