SHARP PHILIP A

Form 4 June 12, 2009

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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obligations may continue.

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

1(b).

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person SHARP PHILIP A	2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner		
(Last) (First) (Middle 300 THIRD STREET	3. Date of Earliest Transaction (Month/Day/Year) 06/11/2009	Officer (give title below) Other (specify below)		
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person		
CAMBRIDGE, MA 02142		Form filed by More than One Reporting Person		

(City)	(State) (Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			5. Amount of 6. Securities Ownership Beneficially Form: Direct Owned (D) or Following Indirect (I)	Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	04/14/2009		J <u>(1)</u>	V	176,830	A	\$0	252,630	D	
Common Stock	04/14/2009		<u>J(1)</u>	V	176,830	D	\$0	75,800	D	
Common Stock	04/14/2009		<u>J(1)</u>	V	176,830	D	\$0	0	I	by Trust
Common Stock	04/14/2009		J <u>(1)</u>	V	176,830	A	\$0	176,830	I	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)

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. Transactio Code (Instr. 8)	5. Number of or 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 Amou Underlying Secur (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Am or Nu of S
Non-Qualified Stock Option (right to buy)	\$ 22.09	06/11/2009		A	15,000	06/11/2010	06/11/2019	Common Stock	15

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

SHARP PHILIP A 300 THIRD STREET

X

CAMBRIDGE, MA 02142

Signatures

By: /s/ Patricia L Allen, Attorney-in-Fact For: Phillip A Sharp

06/12/2009

**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 176,830 shares were previously reported as indirectly owned by the "Phillip A. Sharp 2008 Grantor Retained Annuity Trust". On

(1) April 14, 2009, the shares were re-registered to Phillip A. Sharp and then contributed to the "Phillip A. Sharp 2009 Grantor Retained Annuity Trust".

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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