

SHARP PHILIP A
Form 4
June 04, 2010

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(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.
[ALNY]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
06/02/2010

300 THIRD ST
(Street)

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

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

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

CAMBRIDGE, MA 02142

(City) (State) (Zip)

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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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)
			Code	V Amount (A) or (D) Price			
Common Stock	05/27/2010		J ⁽¹⁾	V 29,600 D \$ 0 147,230		I	By Trust ⁽²⁾
Common Stock	05/27/2010		J ⁽¹⁾	V 29,600 A \$ 0 105,400		D	
Common Stock	05/27/2010		J ⁽³⁾	V 105,400 D \$ 0 0		D	
Common Stock	05/27/2010		J ⁽³⁾	V 105,400 A \$ 0 105,400		I	By Trust ⁽³⁾

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

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(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 of 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 Security (Instr. 3 and 4)
Non-Qualified Stock Option (right to buy)	\$ 15.82	06/02/2010		A	15,000	06/02/2011 06/02/2020	Common Stock 15

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SHARP PHILIP A 300 THIRD ST CAMBRIDGE, MA 02142	X			

Signatures

/s/ Patricia L. Allen, Attorney-in-Fact for Phillip A. Sharp 06/04/2010

__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 29,600 shares were previously reported as indirectly owned by the "Phillip A. Sharp 2009 Grantor Annuity Trust". The shares were re-registered to Phillip A. Sharp.
- (2) The 147,230 shares are registered to the "Phillip A. Sharp 2009 Grantor Annuity Trust".
- (3) The 105,400 shares were previously reported as (i) 75,800 shares directly beneficially owned and (ii) 29,600 shares indirectly owned by the "Phillip A. Sharp 2009 Grantor Annuity Trust" and re-registered to Phillip A. Sharp. On May 27, 2010, the 105,400 shares were contributed to the "Phillip A. Sharp 2010 Grantor 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.