ALNYLAM PHARMACEUTICALS, INC.

Form 4

January 20, 2017

FORM 4

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005 Estimated average

OMB APPROVAL

Form 4 or Form 5 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

burden hours per response... 0.5

See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * SHARP PHILIP A			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			ALNYLAM PHARMACEUTICALS, INC.	(Check all applicable)		
	[ALNY]	X Director 10% Owner				
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	Officer (give title Other (specify below)		
300 THIRD S	STREET		(Month/Day/Year) 01/18/2017			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
CAMPRIDO	E MA 021	40	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting		

CAMBRIDGE, MA 02142

(State)

(Zip)

(City)

Tab	le I - No	on-Derivative Securities Acqu	uired, Disposed o	f, or Beneficia	lly Owned
med	3.	4. Securities Acquired	5. Amount of	6.	7. Nature
on Date, if	Trans	action(A) or Disposed of (D)	Securities	Ownership	Indirect

Person

1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	on(A) or Di	(A) or Disposed of (D) (Instr. 3, 4 and 5) Securities Beneficiall Owned Following		Beneficially Owned	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	Transaction(s) (Instr. 3 and 4)	(111511.4)	
Common Stock	01/18/2017		M(1)	15,000	A	\$ 15.91	155,795	D	
Common Stock	01/18/2017		S <u>(1)</u>	8,800	D	\$ 37.57 (2)	146,995	D	
Common Stock	01/18/2017		S <u>(1)</u>	6,200	D	\$ 38.2 (3)	140,795	D	
Common Stock							126,104	I	by Trust

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

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SEC 1474 (9-02)

number.

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	3. Transaction Date (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of onDerivative Securities Acquired (A) or Disposed of	6. Date Exercisable and Expiration Date Underlying Secur (Month/Day/Year) (Instr. 3 and 4)		Securities	
	Security			(D) (Instr. 3, 4, and 5)				
			Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 15.91	01/18/2017	M(1)	15,000	06/01/2008	06/01/2017	Common Stock	15,000

Reporting Owners

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

Signatures

By: /s/ Michael P. Mason, Attorney-in-Fact For: Phillip A. Sharp 01/20/2017

**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 25, 2016.
- (2) Sale prices ranged from \$37.07 to \$38.06
- (3) Sale prices ranged from \$38.09 to \$38.50

The 126,104 shares reported as indirectly owned by trust include: (i) 94,838 shares in the Phillip A. Sharp 2009 Grantor Annuity Trust

(4) No. 3, and (ii) 31,266 shares in the Phillip A. Sharp 2008 Grantor Annuity Trust No. 2 (which include shares distributed from the 2010 Trust).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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