Washington, D.C. 20549

ALNYLAM PHARMACEUTICALS, INC.

Form 4

December 04, 2015

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB APPROVAL

OMB 3235-0287 Number:

January 31, Expires: 2005

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response...

Check this box if no longer subject to Section 16. Form 4 or

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

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations 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 SHARP PHILIP A	Person *	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
		ALNYLAM PHARMACEUTICALS, INC. [ALNY]	(Check all applicable) _X_ Director 10% Owner		
(Last) (First) (300 THIRD STREET	(Middle) 3. Date of Earliest Transaction (Month/Day/Year) 12/04/2015	Officer (give title Delow) 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		

CAMBRIDGE,	MA	. 02142
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(City)	(State)	(Zip) Tabl	e I - Non-D	erivative S	Securi	ties Acqu	iired, Disposed of	, or Beneficial	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securities Acquired n(A) or Disposed of (D) (Instr. 3, 4 and 5)		Securities Beneficially	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)	(
Common Stock	12/04/2015		M(1)	10,000	A	\$ 14.74	150,795	D	
Common Stock	12/04/2015		M <u>(1)</u>	20,000	A	\$ 14.05	170,795	D	
Common Stock	12/04/2015		S <u>(1)</u>	30,000	D	\$ 109	140,795	D	
Common Stock							126,104	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. Transaction Code (Instr. 8)	5. Number of onDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	ivative Expiration Date urities (Month/Day/Year) quired (A) Disposed of estr. 3, 4,		7. Title and Amo Underlying Secur (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	An or Nu of S
Non-Qualified Stock Option (right to buy)	\$ 14.05	12/04/2015		M <u>(1)</u>	20,000	09/02/2007	09/12/2016	Common Stock	20
Stock Option (right to buy)	\$ 14.74	12/04/2015		M(1)	10,000	06/01/2007	06/01/2016	Common Stock	10

Reporting Owners

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

Signatures

By: /s/ Michael P. Mason, Attorney-In-Fact For: Phillip A. 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).
- (1) The sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 30, 2015.

The 126,104 shares reported as indirectly owned by trust include: (i) 94,838 shares in the Phillip A. Sharp 2009 Grantor Annuity Trust (2) 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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