

ALNYLAM PHARMACEUTICALS, INC.

Form 4

October 26, 2007

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

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

OMB APPROVAL

OMB
Number: 3235-0287
Expires: January 31,
2005
Estimated average
burden hours per
response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person *
Allen Patricia L

(Last) (First) (Middle)

300 THIRD STREET

(Street)

CAMBRIDGE, MA 02142

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol
ALNYLAM
PHARMACEUTICALS, INC.
[ALNY]

3. Date of Earliest Transaction
(Month/Day/Year)
10/25/2007

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

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

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

VP of Finance/Treasurer

6. Individual or Joint/Group Filing(Check
Applicable Line)
__X__ Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

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 Ownership (Instr. 4)
			Code	V	Amount	(A) or (D) Price			
Common Stock	10/25/2007		S ⁽¹⁾		200	D \$ 32.06	7,060	D	
Common Stock	10/25/2007		S		1,400	D \$ 32.07	5,660	D	
Common Stock	10/25/2007		S		100	D \$ 32.08	5,560	D	
Common Stock	10/25/2007		S		100	D \$ 32.09	5,460	D	
Common Stock	10/25/2007		S		600	D \$ 32.1	4,860	D	

Edgar Filing: ALNYLAM PHARMACEUTICALS, INC. - Form 4

Common Stock	10/25/2007	S	400	D	\$ 32.11	4,460	D
Common Stock	10/25/2007	S	298	D	\$ 32.13	4,162	D
Common Stock	10/25/2007	S	100	D	\$ 32.14	4,062	D
Common Stock	10/25/2007	S	100	D	\$ 32.15	3,962	D
Common Stock	10/25/2007	S	191	D	\$ 32.18	3,771	D
Common Stock	10/25/2007	S	800	D	\$ 32.19	2,971	D
Common Stock	10/25/2007	S	300	D	\$ 32.2	2,671	D
Common Stock	10/25/2007	S	1	D	\$ 32.21	2,670	D
Common Stock	10/25/2007	S	100	D	\$ 32.22	2,570	D
Common Stock	10/25/2007	S	100	D	\$ 32.23	2,470	D
Common Stock	10/25/2007	S	200	D	\$ 32.25	2,270	D
Common Stock	10/25/2007	S	300	D	\$ 32.26	1,970	D
Common Stock	10/25/2007	S	200	D	\$ 32.27	1,770	D
Common Stock	10/25/2007	S	100	D	\$ 32.29	1,670	D
Common Stock	10/25/2007	S	300	D	\$ 32.42	1,370	D
Common Stock	10/25/2007	S	200	D	\$ 32.44	1,170	D
Common Stock	10/25/2007	S	100	D	\$ 32.46	1,070	D

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474
(9-02)

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

Edgar Filing: ALNYLAM PHARMACEUTICALS, INC. - Form 4

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 Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repor Trans (Instr
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Allen Patricia L 300 THIRD STREET CAMBRIDGE, MA 02142			VP of Finance/Treasurer	

Signatures

/s/ Patricia L.
Allen 10/26/2007

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) All sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 25, 2007.

Remarks:

This Form 4 is the second of two filed by the reporting person to report transactions occurring on October 25, 2007.

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.