

ALNYLAM PHARMACEUTICALS, INC.

Form 4

October 26, 2007

FORM 4

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

OMB APPROVAL

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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 *
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
 Officer (give title below) _____ Other (specify below)
VP of Finance/Treasurer

6. Individual or Joint/Group Filing(Check Applicable Line)
 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. 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)
				(A) or (D) Code V Amount 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	

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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.

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

