ALNYLAM PHARMACEUTICALS, INC.

Form 4

March 07, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

OMB APPROVAL

3235-0287

Expires:

January 31, 2005

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Check this box

Form 5 obligations may continue. See Instruction

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

1(b).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person * **Barrett Peter**

(First)

(Street)

2. Issuer Name and Ticker or Trading

Issuer

Symbol **ALNYLAM**

PHARMACEUTICALS, INC.

(Check all applicable)

5. Relationship of Reporting Person(s) to

[ALNY]

_X__ Director Officer (give title

10% Owner Other (specify

3. Date of Earliest Transaction

(Month/Day/Year)

C/O ATLAS VENTURE SUITE

(Middle)

03/03/2006

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

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

WALTHAM, MA 02451

320, 890 WINTER STREET

(City)	(State)	(Zip) Tal	ole I - Non	-Derivative	Securi	ities Acquire	ed, Disposed of, o	or Beneficially	y Owned
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)	4. Securition of Disposed of Configuration (Instr. 3, 4) Amount	of (D)	uired (A) or	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)
Common Stock	03/03/2006		S	56,528	D	\$ 16.8863	0	I	See Footnote (1)
Common Stock	03/06/2006		S	19,983	D	\$ 17.1981	166,102	I	See Footnote (1)
Common Stock	03/03/2006		S	14,043	D	\$ 16.8863	0	I	See Footnote (2)

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Common Stock	03/06/2006	S	4,964	D	\$ 17.1981	41,266	I	See Footnote (2)
Common Stock	03/03/2006	S	942	D	\$ 16.8863	0	I	See Footnote (3)
Common Stock	03/06/2006	S	333	D	\$ 17.1981	2,762	I	See Footnote (3)
Common Stock	03/03/2006	S	102,619	D	\$ 16.8863	0	I	See Footnote (4)
Common Stock	03/06/2006	S	36,276	D	\$ 17.1981	301,537	I	See Footnote
Common Stock	03/03/2006	S	2,771	D	\$ 16.8863	0	I	See Footnote (5)
Common Stock	03/06/2006	S	980	D	\$ 17.1981	8,144	I	See Footnote (5)
Common Stock	03/03/2006	S	1,879	D	\$ 16.8863	0	I	See Footnote (6)
Common Stock	03/06/2006	S	664	D	\$ 17.1981	5,522	I	See Footnote (6)

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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exercisable and	7. Title and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	orNumber	Expiration Date	Amount of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/Year)	Underlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e	Securities	(Instr. 5)	Bene
	Derivative				Securities	3	(Instr. 3 and 4)		Own
	Security				Acquired				Follo
					(A) or				Repo
					Disposed				Trans
					of (D)				(Instr
					(Instr. 3,				
					4, and 5)				

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Date Expiration Or Number Of Shares

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Barrett Peter
C/O ATLAS VENTURE SUITE 320
890 WINTER STREET

Signatures

WALTHAM, MA 02451

/s/ Jeanne Larkin Henry - Attorney in Fact

03/07/2006

**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).
 - Sale of shares of the Issuer's Common Stock by Atlas Venture Fund V, L.P. ("Atlas V"). These shares are owned directly by Atlas V.
- (1) Peter Barrett is a Senior Partner of Atlas Venture. Mr. Barrett disclaims beneficial ownership of such shares except to the extent of his pecuniary interest therein.
- Sale of shares of the Issuer's Common Stock by Atlas Venture Parallel Fund V-A, C.V. ("Atlas V-A"). These shares are owned directly (2) by Atlas V-A. Peter Barrett is a Senior Partner of Atlas Venture. Mr. Barrett disclaims beneficial ownership of such shares except to the extent of his pecuniary interest therein.
- Sale of shares of the Issuer's Common Stock by Atlas Venture Entrepreneurs' Fund V, L.P. ("AVE V"). These shares are owned directly (3) by AVE V. Peter Barrett is a Senior Partner of Atlas Venture. Mr. Barrett disclaims beneficial ownership of such shares except to the extent of his pecuniary interest therein.
- Sale of shares of the Issuer's Common Stock by Atlas Venture Fund VI, L.P. ("Atlas VI"). These shares are owned directly by Atlas VI.

 (4) Peter Barrett is a Senior Partner of Atlas Venture. Mr. Barrett disclaims beneficial ownership of such shares except to the extent of his pecuniary interest therein.
- Sale of shares of the Issuer's Common Stock by Atlas Venture Entrepreneurs' Fund VI, L.P. ("AVE VI"). These shares are owned directly by AVE VI. Peter Barrett is a Senior Partner of Atlas Venture. Mr. Barrett disclaims beneficial ownership of such shares except to the extent of his pecuniary interest therein.
- Sale of shares of the Issuer's Common Stock by Atlas Venture Fund VI GmbH & Co. KG. ("AV VI KG"). These shares are owned directly by AV VI KG. Peter Barrett is a Senior Partner of Atlas Venture. Mr. Barrett disclaims beneficial ownership of such shares except to the extent of his pecuniary interest therein.

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.

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