ALNYLAM PHARMACEUTICALS, INC.

Form 4

March 09, 2006

FORM 4

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

OMB 3235-0287 Number:

Check this box if no longer subject to

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

January 31, Expires: 2005

0.5

OMB APPROVAL

Section 16. 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

burden hours per response...

Estimated average

See Instruction

30(h) of the Investment Company Act of 1940 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Barrett Peter

Symbol **ALNYLAM**

PHARMACEUTICALS, INC.

(Check all applicable)

[ALNY]

Filed(Month/Day/Year)

_X__ Director 10% Owner

03/07/2006

(Last) (First) (Middle)

Officer (give title 3. Date of Earliest Transaction (Month/Day/Year)

Other (specify

C/O ATLAS VENTURE SUITE

(Street)

(State)

320, 890 WINTER STREET

4. If Amendment, Date Original

Applicable Line)

(Zip)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Table I. Non Derivative Securities Acquired Disposed of or Peneficially Owned

WALTHAM, MA 02451

(City)

(,)	(~)	Tab	le I - Non-	Derivative	Secui	rties Acquir	ed, Disposed of,	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. Securit our Dispos (Instr. 3, 4	ed of (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	03/07/2006		S	6,893	D	\$ 16.5058	159,209	I	See Footnote (1)
Common Stock	03/07/2006		S	1,712	D	\$ 16.5058	39,554	I	See Footnote
Common Stock	03/07/2006		S	115	D	\$ 16.5058	2,647	I	See Footnote (3)

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Common Stock	03/07/2006	S	12,513	D	\$ 16.5058	289,024	I	See Footnote
Common Stock	03/07/2006	S	338	D	\$ 16.5058	7,806	I	See Footnote (5)
Common Stock	03/07/2006	S	229	D	\$ 16.5058	5,293	I	See Footnote (6)

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)

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. Transacti Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	Amor Unde Secur	le and unt of rlying rities . 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secun Bene Own Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationsnips						
	Director	10% Owner	Officer	Other			
Barrett Peter C/O ATLAS VENTURE SUITE 320 890 WINTER STREET WALTHAM, MA 02451	X						
Signatures							

/s/ Jeanne Larkin Henry - Attorney 03/09/2006 in Fact

> **Signature of Reporting Person Date

2 Reporting Owners

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
- (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
- (6) 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.