

Barrett Peter  
Form 4  
March 01, 2006

**FORM 4**

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

OMB APPROVAL

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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

(Print or Type Responses)

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

(Last) (First) (Middle)

C/O ATLAS VENTURE SUITE  
320, 890 WINTER STREET

(Street)

WALTHAM, MA 02451

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
(Month/Day/Year)  
02/27/2006

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)

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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	(A) or (D)	Price	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	02/27/2006		S	79,047	D	\$ 15.7719	0	I	See Footnote (1)
Common Stock	02/28/2006		S	28,947	D	\$ 15.9842	285,962	I	See Footnote (1)
Common Stock	02/27/2006		S	19,638	D	\$ 15.7719	0	I	See Footnote (2)

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Common Stock	02/28/2006		S	7,191	D	\$ 15.9842	71,042	I	See Footnote (2)
Common Stock	02/27/2006		S	1,316	D	\$ 15.7719	0	I	See Footnote (3)
Common Stock	02/28/2006		S	482	D	\$ 15.9842	4,759	I	See Footnote (3)
Common Stock	02/27/2006		S	143,497	D	\$ 15.7719	0	I	See Footnote (4)
Common Stock	02/28/2006		S	52,548	D	\$ 15.9842	519,126	I	See Footnote (4)
Common Stock	02/27/2006		S	3,875	D	\$ 15.7719	0	I	See Footnote (5)
Common Stock	02/28/2006		S	1,419	D	\$ 15.9842	14,020	I	See Footnote (5)
Common Stock	02/27/2006		S	2,627	D	\$ 15.7719	0	I	See Footnote (6)
Common Stock	02/28/2006		S	962	D	\$ 15.9842	9,506	I	See Footnote (6)

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

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(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 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. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 6)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Code V (A) (D)				

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	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 in Fact	03/01/2006
__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 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.
- (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 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.
- (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.
- (5) 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.
- (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.

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