ALNYLAM PHARMACEUTICALS, INC.

Form SC 13G/A February 14, 2008

SECURITIES AND EXCHANGE COMMISSION Washington, D. C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)

ALNYLAM PHARMACEUTICALS, INC.

(Name of Issuer)

Common Stock, \$.01 par value per share
----(Title and Class of Securities)

02043Q107 -----(CUSIP Number)

December 31, 2007

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this schedule is filed:

[x] Rule 13d-1(b)
[] Rule 13d-1(c)
[] Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 (the "Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 02043Q107

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NAMES OF REPORTING PERSONS
S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS

ALETHEIA RESEARCH AND MANAGEMENT, INC., IRS number 95-4647814, as general partner of various limited partnerships and on behalf of various managed accounts.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) []

3	SEC USE ONI			
4	CITIZENSHIP	OR P	LACE OF ORGANIZATION	
	California			
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER	
			2,748,469	
		6	SHARED VOTING POWER	
			0	
		7	SOLE DISPOSITIVE POWER	
			2,748,469	
		8	SHARED DISPOSITIVE POWER	
			0	
9	AGGREGATE A	MOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,748,469			
10	CHECK BOX I	F THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN	SHARES* []
11	PERCENT OF	CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
	6.75%			
12	TYPE OF REP	ORTIN	G PERSON*	
	Aletheia Re	searc	n and Management, Inc IA	
			2	
CUS	SIP No. 02043Q1	07	Page	3 of 6 Pages
Ite	em 1(a).	Name	of Issuer:	
		Alny	lam Pharmaceuticals, Inc.	
Ite	em 1(b).	Addr	ess of Issuer's Principal Executive Offices:	
		300	Third Street, Cambridge, MA 02142	
Ite	em 2(a).	Name	of Person Filing:	
		Alet	neia Research and Management, Inc.	
Ite	em 2(b).	Addr	ess of Principal Business Office or, if None,	Residence:
		100	Wilshire Boulevard, Suite 1960, Santa Monica,	CA 90401

Item 2(c).		Citi	zenship:		
		Not	Applicable.		
Item 2(d).		Titl	e of Class of Securities:		
		Comm	on Stock, \$.01 par value.		
Item 2(e).		CUSI	P Number:		
		0204	3Q107		
Item 3.		If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:			
	(a)	[]	Broker or Dealer registered under Section 15 of the Act.		
	(b)	[]	Bank as defined in Section 3(a)(6) of the Act.		
	(c)	[]	Insurance Company as defined in Section $3(a)\ (19)$ of the Act.		
	(d)	[]	Investment Company registered under Section 8 of the Investment Company Act.		
	(e)	X	Investment Adviser registered in accordance with Rule $13d-1(b)(1)(ii)(E)$.		
			3		
CUSIP No. 02	043Q1	07	Page 4 of 6 Pages		
CUSIP No. 02	043Q1 (f)	07	Page 4 of 6 Pages Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F).		
CUSIP No. 02			Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F).		
CUSIP No. 02	(f)	[]	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance		
CUSIP No. 02	(f) (g) (h)	[]	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.		
CUSIP No. 02	(f) (g) (h)	[]	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c) (14) of the Investment Company Act of 1940.		
CUSIP No. 02	(f) (g) (h)	[]	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c) (14) of the Investment Company Act of 1940.		
CUSIP No. 02	(f) (g) (h)	[]	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940. Group, in accordance with Rule 13d-1(b)(1)(ii)(J). If this Statement is filed pursuant to Rule 13d-1(c),		
	(f) (g) (h)	[] [] [] Owne	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940. Group, in accordance with Rule 13d-1(b)(1)(ii)(J). If this Statement is filed pursuant to Rule 13d-1(c), check this box [].		
	(f) (g) (h)	[] [] [] Owne (a)	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940. Group, in accordance with Rule 13d-1(b)(1)(ii)(J). If this Statement is filed pursuant to Rule 13d-1(c), check this box [].		
	(f) (g) (h)	[] [] [] Owne (a) (b)	Employee Benefit Plan or Endowment Fund in accordance with Rule 13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c) (14) of the Investment Company Act of 1940. Group, in accordance with Rule 13d-1(b)(1)(ii)(J). If this Statement is filed pursuant to Rule 13d-1(c), check this box []. rship. Amount beneficially owned: 2,748,469*		

2,748,469

- (ii) Shared power to vote or to direct the vote: 0
- (iii) Sole power to dispose or to direct the disposition of: 2,748,469
- (iv) Shared Power to dispose or to direct the disposition of: $\boldsymbol{0}$
- * See Disclaimer of Beneficial Ownership
- Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. [].

Item 6 Ownership of More than Five Percent on Behalf of Another Person.

Various accounts and funds managed by the reporting person have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the securities held in their respective accounts. To the knowledge of the reporting person, the interest of any one such account does not exceed 5% of the class of securities.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not Applicable.

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Item 8. Identification and Classification of Members of the Group.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certification.

By signing below, I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

Date: February 11, 2008 ALETHEIA RESEARCH AND MANAGEMENT, INC.,

By: /s/ Roger Peikin

Name: Roger Peikin

Title: Executive Vice-President

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EXHIBIT A

DISCLAIMER OF BENEFICIAL OWNERSHIP

Alnylam Pharmaceuticals, Inc. Common Stock 2,748,469 shares

Aletheia Research and Management, Inc. ("Aletheia") is an investment advisor registered under Section 203 of the Investment Advisors Act of 1940 and serves in such capacity for a number of managed accounts and funds. In its role as an investment advisor or manager, Aletheia possesses investment and/or voting power over the securities of the Issuer discussed in this schedule. Aletheia disclaims beneficial ownership of such securities. In addition, the filing of this Schedule 13G shall not be construed as an admission that the reporting person or any of its affiliates is the beneficial owner of any securities covered by this Schedule 13G for any purposes other than Section 13(a) of the Securities Exchange Act of 1934.

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