

ALNYLAM PHARMACEUTICALS, INC.

Filed by
DODGE & COX

FORM SC 13G/A (Amended Statement of Ownership)

Filed 02/14/17

Address	300 THIRD STREET CAMBRIDGE, MA 02142
Telephone	(617) 551-8200
CIK	0001178670
Symbol	ALNY
SIC Code	0000 - Unknown
Industry	Investment Management & Fund Operators
Sector	Financials
Fiscal Year	12/31

**UNITED STATES
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
(Title of Class of Securities)

02043Q107
(CUSIP Number)

December 31, 2016
(Date of Event Which Requires Filing of this Statement)

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

- 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 ("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).

1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Dodge & Cox 94-1441976	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) <input type="checkbox"/> (b) <input type="checkbox"/> N/A	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION California - U.S.A.	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 8,794,650
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 9,204,950
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 9,204,950	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* N/A	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 10.7%	
12	TYPE OF REPORTING PERSON* IA	

Item 1(a) Name of Issuer :
ALNYLAM PHARMACEUTICALS, INC.

Item 1(b) Address of Issuer's Principal Executive Offices :
300 Third Street
Cambridge, MA 02142

Item 2(a) Name of Person Filing :
Dodge & Cox

Item 2(b) Address of the Principal Office or, if none, Residence :
555 California Street, 40th Floor
San Francisco, CA 94104

Item 2(c) Citizenship :
California - U.S.A.

Item 2(d) Title of Class of Securities :
Common Stock

Item 2(e) CUSIP Number :
02043Q107

Item 3 If the Statement is being filed pursuant to Rule 13d-1(b), or 13d-2(b), check whether the person filing is a :
(e) Investment Advisor registered under section 203 of the Investment Advisors Act of 1940

Item 4 Ownership :
(a) Amount Beneficially Owned :
9,204,950
(b) Percent of Class :
10.7%

- (c) Number of shares as to which such person has :
- (i) sole power to vote or direct the vote: 8,794,650
 - (ii) shared power to vote or direct the vote: 0
 - (iii) sole power to dispose or to direct the disposition of: 9,204,950
 - (iv) shared power to dispose or to direct the disposition of: 0

Item 5 Ownership of Five Percent or Less of a Class :

Not applicable.

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

The clients of Dodge & Cox, including investment companies registered under the Investment Company Act of 1940 and other managed accounts, have the right to receive or power to direct the receipt of dividends from, and the proceeds from the sale of, ALNYLAM PHARMACEUTICALS, INC.

Dodge & Cox Stock Fund, an investment company registered under the Investment Company Act of 1940, has an interest of 5,430,735, or 6.3%, of the class of securities reported herein.

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

Not applicable.

Item 8 Identification and Classification of Members of the Group :

Not applicable.

Item 9 Notice of Dissolution of a 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 acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2017

DODGE & COX

By: /S/ THOMAS M. MISTELE

Name: Thomas M. Mistele

Title: Executive Vice President & Senior Counsel