

ALNYLAM PHARMACEUTICALS, INC.

Form 8-K

April 30, 2007

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

**FORM 8-K  
CURRENT REPORT**

**Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934**  
Date of Report (Date of earliest event reported): April 30, 2007 (April 25, 2007)  
**Alnylam Pharmaceuticals, Inc.**

(Exact Name of Registrant as Specified in Charter)

Delaware	000-50743	77-0602661
(State or Other Jurisdiction of Incorporation)	(Commission File Number)	(IRS Employer Identification No.)

300 Third Street, Cambridge, MA

02142

(Address of Principal Executive Offices)

(Zip Code)

Registrant's telephone number, including area code: (617) 551-8200

Not applicable

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (*see* General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
-

**Item 5.02. Departure of Directors or Principal Officers; Election of Directors; Appointment of Principal Officers; Compensatory Arrangements of Certain Officers.**

(b) On April 25, 2007, Peter Barrett, Ph.D., a Partner at Atlas Venture, advised the Board of Directors of Alnylam Pharmaceuticals, Inc. (the Company) that he intends to resign from the Board and not stand for reelection when his term expires at the Company's 2007 Annual Meeting of Stockholders on June 1, 2007. Atlas Venture was a founding venture capitalist of Alnylam and Dr. Barrett has served as a member of the Company's Board since the Company's inception in 2002. Dr. Barrett has been a valuable member of the Company's Board but has elected to resign from the Board in order to focus on his private portfolio companies.

---

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ALNYLAM PHARMACEUTICALS, INC.

Date: April 30, 2007

By: /s/ Patricia L. Allen  
Patricia L. Allen  
Vice President, Finance and Treasurer