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ALNYLAM PHARMACEUTICALS, INC.

Form SC 13G/A

February 14, 2008

SCHEDULE 13G

Amendment No. 3  
Alnylam Pharmaceuticals Incorporated  
Common Stock  
Cusip #02043Q107

Cusip #02043Q107  
Item 1: Reporting Person - FMR LLC  
Item 4: Delaware  
Item 5: 268,636  
Item 6: 0  
Item 7: 6,104,982  
Item 8: 0  
Item 9: 6,104,982  
Item 11: 15.000%  
Item 12: HC

Cusip #02043Q107  
Item 1: Reporting Person - Edward C. Johnson 3d  
Item 4: United States of America  
Item 5: 0  
Item 6: 0  
Item 7: 6,104,982  
Item 8: 0  
Item 9: 6,104,982  
Item 11: 15.000%  
Item 12: IN

SCHEDULE 13G - TO BE INCLUDED IN  
STATEMENTS

FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

This Amendment to Schedule 13G filed by FMR LLC amends  
the statement on Schedule 13G previously filed by FMR  
Corp., the predecessor of FMR LLC.

Item 1(a). Name of Issuer:

Alnylam Pharmaceuticals Incorporated

Item 1(b). Name of Issuer's Principal Executive Offices:

300 Third Street  
Cambridge, MA 02142

Item 2(a). Name of Person Filing:

FMR LLC

Item 2(b). Address or Principal Business Office or, if None,

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Residence:

82 Devonshire Street, Boston,  
Massachusetts 02109

Item 2(c). Citizenship:

Not applicable

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

02043Q107

Item 3. This statement is filed pursuant to Rule 13d-1(b) or 13d-2(b) and the person filing, FMR LLC, is a parent holding company in accordance with Section 240.13d-1(b)(ii)(G). (Note: See Item 7).

Item 4. Ownership

(a) Amount Beneficially Owned: 6,104,982

(b) Percent of Class: 15.000%

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote: 268,636

(ii) shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of: 6,104,982

(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.

Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Common Stock of Alnylam Pharmaceuticals Incorporated. The interest of one person, Fidelity Aggressive Growth Fund, an investment company registered under the Investment Company Act of 1940, in the Common Stock of Alnylam Pharmaceuticals Incorporated, amounted to 3,133,941 shares or 7.700% of the total outstanding Common Stock at December 31, 2007.

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

See attached Exhibit A.

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

Not applicable. See attached Exhibit A.

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 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.

February 13, 2008  
Date

/s/Eric D. Roiter  
Signature

Eric D. Roiter  
Duly authorized under Power of Attorney  
dated December 30, 1997 by and on behalf of FMR Corp.  
(now known as FMR LLC) and its direct and indirect  
subsidiaries

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Pursuant to the instructions in Item 7 of Schedule 13G, Fidelity Management & Research Company ("Fidelity"), 82 Devonshire Street, Boston, Massachusetts 02109, a wholly-owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 5,836,696 shares or 14.341% of the Common Stock outstanding of Alnylam Pharmaceuticals Incorporated ("the Company") as a result of acting as investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940.

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The ownership of one investment company, Fidelity Aggressive Growth Fund, amounted to 3,133,941 shares or 7.700% of the Common Stock outstanding. Fidelity Aggressive Growth Fund has its principal business office at 82 Devonshire Street, Boston, Massachusetts 02109.

Edward C. Johnson 3d and FMR LLC, through its control of Fidelity, and the funds each has sole power to dispose of the 5,836,696 shares owned by the Funds.

Members of the family of Edward C. Johnson 3d, Chairman of FMR LLC, are the predominant owners, directly or through trusts, of Series B voting common shares of FMR LLC, representing 49% of the voting power of FMR LLC. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B voting common shares will be voted in accordance with the majority vote of Series B voting common shares. Accordingly, through their ownership of voting common shares and the execution of the shareholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR LLC.

Neither FMR LLC nor Edward C. Johnson 3d, Chairman of FMR LLC, has the sole power to vote or direct the voting of the shares owned directly by the Fidelity Funds, which power resides with the Funds' Boards of Trustees. Fidelity carries out the voting of the shares under written guidelines established by the Funds' Boards of Trustees.

Fidelity International Limited ("FIL"), Pembroke Hall, 42 Crow Lane, Hamilton, Bermuda, and various foreign-based subsidiaries provide investment advisory and management services to a number of non-U.S. investment companies and certain institutional investors. FIL, which is a qualified institution under section 240.13d-1(b)(1) pursuant to an SEC No-Action letter dated October 5, 2000, is the beneficial owner of 268,286 shares or 0.659% of the Common Stock outstanding of the Company.

Partnerships controlled predominantly by members of the family of Edward C. Johnson 3d, Chairman of FMR LLC and FIL, or trusts for their benefit, own shares of FIL voting stock with the right to cast approximately 47% of the total votes which may be cast by all holders of FIL voting stock. FMR LLC and FIL are separate and independent corporate entities, and their Boards of Directors are generally composed of different individuals.

FMR LLC and FIL are of the view that they are not acting as a "group" for purposes of Section 13(d) under the Securities Exchange Act of 1934 (the "1934" Act) and that they are not otherwise required to attribute to each other the "beneficial ownership" of securities "beneficially owned" by the other corporation within the meaning of Rule 13d-3 promulgated under the 1934 Act. Therefore, they are of the view that the shares held by the other corporation need not be aggregated for purposes of Section 13(d). However, FMR LLC is making this filing on a voluntary basis as if all of the shares are beneficially owned by FMR LLC and FIL on a joint

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basis.

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RULE 13d-1(f)(1) AGREEMENT

The undersigned persons, on February 13, 2008, agree and consent to the joint filing on their behalf of this Schedule 13G in connection with their beneficial ownership of the Common Stock of Alnylam Pharmaceuticals Incorporated at December 31, 2007.

FMR LLC

By /s/ Eric D. Roiter  
Eric D. Roiter  
Duly authorized under Power of Attorney dated  
December 30, 1997, by and on behalf of FMR Corp. (now  
known as FMR LLC) and its direct and indirect subsidiaries

Edward C. Johnson 3d

By /s/ Eric D. Roiter  
Eric D. Roiter  
Duly authorized under Power of Attorney dated  
December 30, 1997, by and on behalf of Edward C. Johnson  
3d

Fidelity Management & Research Company

By /s/ Eric D. Roiter  
Eric D. Roiter  
Senior V.P. and General Counsel

Fidelity Aggressive Growth Fund

By /s/ Eric D. Roiter  
Eric D. Roiter  
Secretary