

SCHEDULE 13G

Amendment No. 1  
ADVENTRX PHARMACEUTICALS INC  
Common Stock  
Cusip #00764X202

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Item 1: Reporting Person - FMR LLC  
Item 4: Delaware  
Item 5: 0  
Item 6: 0  
Item 7: 1,006,758  
Item 8: 0  
Item 9: 1,006,758  
Item 11: 2.103%  
Item 12: HC

Cusip #00764X202  
Item 1: Reporting Person - Edward C. Johnson 3d  
Item 4: United States of America  
Item 5: 0  
Item 6: 0  
Item 7: 1,006,758  
Item 8: 0  
Item 9: 1,006,758  
Item 11: 2.103%  
Item 12: IN

SCHEDULE 13G - TO BE INCLUDED IN  
STATEMENTS  
FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)

Item 1(a). Name of Issuer:

ADVENTRX PHARMACEUTICALS  
INC

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

12390 El Camino Real  
Suite 150  
San Diego, CA 92130

Item 2(a). Name of Person Filing:

FMR LLC

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

00764X202

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: 1,006,758

(b) Percent of Class: 2.103%

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

(i) sole power to vote or to direct the vote: 0

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

(iii) sole power to dispose or to direct the disposition of: 1,006,758

(iv) shared power to dispose or to direct the disposition of: 0

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 (X).

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

Not applicable

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.

Inasmuch as the reporting persons are no longer the beneficial owners of more than five percent of the number of shares outstanding, the reporting persons have no further reporting obligation under Section 13(d) of the Securities and Exchange Commission thereunder, and the reporting persons have no obligation to amend this Statement if any material change occurs in the facts set forth herein.

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.

January 09, 2013  
Date

/s/ Scott C. Goebel

Signature

Scott C. Goebel  
Duly authorized under Power of Attorney  
effective as of June 1, 2008 by and on behalf of 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 1,006,758 shares or 2.103% of the Common Stock outstanding of ADVENTRX PHARMACEUTICALS INC ("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. The number of shares of Common Stock of ADVENTRX PHARMACEUTICALS INC owned by the investment companies at December 31, 2012 included 163,921 shares of Common Stock resulting from the assumed conversion of 327,838 shares of ADVENTRX PHARMA WT 11/11/16 (0.5 shares of Common Stock for each Warrant).

Edward C. Johnson 3d and FMR LLC, through its control of Fidelity, and the funds each has sole power to dispose of the 1,006,758 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.

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

The undersigned persons, on January 09, 2013, 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 ADVENTRX PHARMACEUTICALS INC at December 31, 2012.

FMR LLC

By /s/ Scott C. Goebel  
Scott C. Goebel  
Duly authorized under Power of Attorney effective as  
of June 1, 2008, by and on behalf of FMR LLC and its direct

and indirect subsidiaries

Edward C. Johnson 3d

By /s/ Scott C. Goebel

Scott C. Goebel

Duly authorized under Power of Attorney effective as  
of June 1, 2008, by and on behalf of Edward C. Johnson 3d

Fidelity Management & Research Company

By /s/ Scott C. Goebel

Scott C. Goebel

Senior V.P. and General Counsel