REGENXBIO Inc. Form SC 13G/A February 12, 2016

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SCHEDULE 13G
Amendment No. 1
REGENXBIO INC
COMMON STOCK
Cusip #75901B107
Check the appropriate box to designate the rule pursuant to which this
Schedule is filed:
[ ] Rule 13d-1(b)
        Rule 13d-1(c)
[x]
[]
         Rule 13d-1(d)
Cusip #75901B107
Item 1:
                        Reporting Person - FMR LLC
Item 2:
                       (a) [ ]
                (b)
                       [ ]
Item 4:
                       Delaware
Item 5:
                        1,093,277
Item 6:
                        0
                        3,312,462
Item 7:
Item 8:
Item 9:
                       3,312,462
Item 11:
                       12.588%
Item 12:
                        HC.
Cusip #75901B107
Item 1:
                       Reporting Person - Abigail P. Johnson
Item 2:
                        (a)
                               [ ]
                        [ ]
                (b)
                        United States of America
Item 4:
Item 5:
                        0
Item 6:
Item 7:
                        3,312,462
Item 8:
Item 9:
                        3,312,462
Item 11:
                        12.588%
Item 12:
                        ΙN
Cusip #75901B107
Item 1:
                       Reporting Person - Select Biotechnology Portfolio
Item 2:
                        (a) [ ]
                (b)
                       [ ]
Item 4:
                        Massachusetts
Item 5:
                        1,660,096
Item 6:
Item 7:
Item 8:
Item 9:
                       1,660,096
Item 11:
                       6.308%
Item 12:
                       IV
Item 1(a).
                        Name of Issuer:
                                REGENXBIO INC
                        Address of Issuer's Principal Executive Offices:
Item 1(b).
                                9712 MEDICAL CENTER DRIVE
SUITE 100
                                ROCKVILLE , MD 20850
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US

Item 2(a). Name of Person Filing: FMR LLC Item 2(b). Address or Principal Business Office or, if None, Residence: 245 Summer Street, Boston, Massachusetts 02210 Item 2(c). Citizenship: Not applicable Title of Class of Securities: Item 2(d). COMMON STOCK CUSIP Number: Item 2(e). 75901B107 Not Applicable Item 3. Item 4. Ownership Amount Beneficially Owned: 3,312,462 (a) (b) Percent of Class: 12.588% (c) Number of shares as to which such person has: sole power to vote or to direct the vote: (i) 1,093,277 (ii) shared power to vote or to direct the vote: (iii) sole power to dispose or to direct the 3,312,462 disposition of: (iv) shared power to dispose or to direct the disposition of: Item 5. Ownership of Five Percent or Less of a Class. Not applicable. Ownership of More than Five Percent on Behalf of Another Item 6. 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 REGENXBIO INC. No one other person's interest in the COMMON STOCK of REGENXBIO INC is more than five percent of the total outstanding COMMON STOCK.

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.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certifications.

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

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 12, 2016 Date

/s/ Marc R. Bryant Signature

Marc R. Bryant

Duly authorized under Power of Attorney effective as of September 23, 2015, by and on behalf of FMR LLC and its direct and indirect subsidiaries *

* This power of attorney is incorporated herein by reference to Exhibit 24 to the Form 4 filed by FMR LLC on November 25, 2015, accession number: 0000315066-15-003312

Exhibit A

Pursuant to the instructions in Item 7 of Schedule 13G, the following table lists the identity and Item 3 classification, if applicable, of each relevant entity that beneficially owns shares of the security class being reported on this Schedule 13G.

* Entity beneficially owns 5% or greater of the outstanding shares of the security class being reported on this Schedule 13G.

Abigail P. Johnson is a Director, the Vice Chairman, the Chief Executive Officer and the President of FMR LLC.

Members of the Johnson family, including Abigail P. Johnson, 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 Abigail P. Johnson has the sole power to vote or direct the voting of the shares owned directly by the various investment companies registered under the Investment Company Act ("Fidelity Funds") advised by Fidelity Management & Research Company ("FMR Co"), a wholly owned subsidiary of FMR LLC, which power resides with the Fidelity Funds' Boards of Trustees. Fidelity Management & Research Company carries out the voting of the shares under written guidelines established by the Fidelity Funds' Boards of Trustees.

This filing reflects the securities beneficially owned, or that may be deemed to be beneficially owned, by FMR LLC, certain of its subsidiaries and affiliates, and other companies (collectively, the "FMR Reporters"). This filing does not reflect securities, if any, beneficially owned by certain other companies whose beneficial ownership of securities is disaggregated from that of the FMR Reporters in accordance with Securities and Exchange Commission Release No. 34-39538 (January 12, 1998).

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

The undersigned persons, on February 12, 2016, 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 REGENXBIO INC at December 31, 2015.

FMR LLC

By /s/ Marc R. Bryant

Marc R. Bryant

Duly authorized under Power of Attorney effective as of September 23, 2015, by and on behalf of FMR LLC and its direct and indirect subsidiaries*

Abigail P. Johnson

By /s/ Marc R. Bryant

Marc R. Bryant

Duly authorized under Power of Attorney effective as of October 12, 2015, by and on behalf of Abigail P. Johnson*

Select Biotechnology Portfolio

By /s/ Marc R. Bryant Marc R. Bryant Secretary

^{*} This power of attorney is incorporated herein by reference to Exhibit 24 to the Form 4 filed by FMR LLC on November 25, 2015, accession number: 0000315066-15-003312