

SCHEDULE 13G

Amendment No. 0
CYTOKINETICS INC
Common Stock
Cusip #23282W605

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Item 1: Reporting Person - FMR LLC
Item 4: Delaware
Item 5: 745,922
Item 6: 0
Item 7: 2,927,805
Item 8: 0
Item 9: 2,927,805
Item 11: 9.583%
Item 12: HC

Cusip #23282W605
Item 1: Reporting Person - Edward C. Johnson 3d
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 2,927,805
Item 8: 0
Item 9: 2,927,805
Item 11: 9.583%
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:

CYTOKINETICS INC

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

280 East Grand Ave
South San Francisco, CA 94080
USA

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

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

Common Stock

Item 2(e). CUSIP Number:

23282W605

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: 2,927,805

(b) Percent of Class: 9.583%

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

(i) sole power to vote or to direct the vote: 745,922

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

(iii) sole power to dispose or to direct the disposition of: 2,927,805

(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 CYTOKINETICS INC. The interest of one person, Fidelity Select Biotechnology Portfolio, an investment company registered under the Investment Company Act of 1940, in the Common Stock of CYTOKINETICS INC, amounted to 1,701,547 shares or 5.569% of the total outstanding Common Stock at December 31, 2013.

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, 2014

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"), 245 Summer Street, Boston, Massachusetts 02210, 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 371,670 shares or 1.216% of the Common Stock outstanding of CYTOKINETICS 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 CYTOKINETICS INC owned by the investment companies at December 31, 2013 included 371,670 shares of Common Stock resulting from the assumed conversion of 2,230,020 shares of CYTOKINETICS INC WT (0.166667 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 371,670 shares owned by the Funds.

Fidelity SelectCo, LLC ("SelectCo"), 1225 17th Street, Suite 1100, Denver, Colorado 80202, 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 1,810,213 shares or 5.925% of the Common Stock outstanding of CYTOKINETICS 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 "SelectCo Funds"). The number of shares of Common Stock of CYTOKINETICS INC owned by the institutional account(s) at December 31, 2013 included 678,831 shares of Common Stock resulting from the assumed conversion of 4,072,980 shares of CYTOKINETICS INC WT (0.166667 shares of Common Stock for each Warrant).

Edward C. Johnson 3d and FMR LLC, through its control of SelectCo, and the SelectCo Funds each has sole power to dispose of the 1,810,213 owned by the SelectCo Funds. The number of shares of Common Stock of CYTOKINETICS INC owned by the institutional account(s) at December 31, 2013 included 678,831 shares of Common Stock resulting from the assumed conversion of 4,072,980 shares of CYTOKINETICS INC WT (0.166667 shares of Common Stock for each Warrant).

The ownership of one investment company, Fidelity Select Biotechnology Portfolio, amounted to 1,701,547 shares or 5.569% of the Common Stock outstanding. Fidelity Select Biotechnology Portfolio has its principal business office at 245 Summer Street, Boston, Massachusetts 02210.

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.

Strategic Advisers, Inc., 245 Summer Street, Boston, MA 02210, a wholly-owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, provides investment advisory services to individuals. As such, FMR LLC's beneficial ownership includes 8 shares, or 0.000%, of the Common Stock outstanding of CYTOKINETICS INC, beneficially owned through Strategic Advisers, Inc.

Pyramis Global Advisors Trust Company ("PGATC"), 900 Salem Street, Smithfield, Rhode Island, 02917, an indirect wholly-owned subsidiary of FMR LLC and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934, is the beneficial owner of 745,914 shares or 2.441% of the outstanding Common Stock of the CYTOKINETICS INC as a result of its serving as investment manager of institutional accounts owning such shares.

Edward C. Johnson 3d and FMR LLC, through its control of Pyramis Global Advisors Trust Company, each has sole dispositive power over 745,914 shares and sole power to vote or to direct the voting of 745,914 shares of Common Stock owned by the institutional accounts managed by PGATC as reported above.

SCHEDULE 13G - TO BE INCLUDED IN STATEMENTS

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

The undersigned persons, on February 13, 2014, 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 CYTOKINETICS INC at December 31, 2013.

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

Fidelity Select Biotechnology Portfolio

By /s/ Scott C. Goebel
Scott C. Goebel
Secretary