GEN PROBE INC Form SC 13G/A May 10, 2005

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SCHEDULE 13G
Amendment No. 1
Gen Probe Incorporated
Common Stock
Cusip #36866T103
Cusip #36866T103
Item 1: Reporting Person - FMR Corp.
Item 4: Delaware
Item 5: 24,454
Item 6: 0
Item 7: 7,555,254
Item 8: 0
Item 9: 7,555,254
Item 11: 14.990%
Item 12:
Cusip #36866T103
Item 1: Reporting Person - Edward C. Johnson 3d
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 7,555,254
Item 8: 0
Item 9: 7,555,254
Item 11: 14.990%
Item 12:
              IN
Cusip #36866T103
Item 1: Reporting Person - Abigail P. Johnson
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 7,555,254
Item 8: 0
Item 9: 7,555,254
Item 11: 14.990%
Item 12:
                  IN
       SCHEDULE 13G - TO BE INCLUDED IN
STATEMENTS
       FILED PURSUANT TO RULE 13d-1(b) or 13d-2(b)
              Name of Issuer:
Item 1(a).
               Gen Probe Incorporated
Item 1(b).
              Name of Issuer's Principal Executive Offices:
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10210 Genetic Center Drive San Diego, CA 92121

Item 2(a). Name of Person Filing:

FMR Corp.

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:

36866T103

Item 3. This statement is filed pursuant to Rule 13d-1 (b) or 13d-2 (b) and the person filing, FMR Corp., 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: 7,555,254

(b) Percent of Class: 14.990%

(c) Number of shares as to which such

person has:

(i) sole power to vote or to direct

the vote: 24,454

(ii) shared power to vote or to

direct the vote: 0

(iii) sole power to dispose or to direct the disposition of: 7,555,254

(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 Gen Probe Incorporated. The interest of one person, Fidelity Growth Company Fund, an investment company registered under the Investment Company Act of 1940, in the Common Stock of Gen Probe Incorporated, amounted to 2,840,000 shares or 5.635% of the total outstanding Common Stock at April 30, 2005.

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

See attached Exhibit(s) A, B.

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 Schedule 13G in connection with FMR Corp.'s beneficial ownership of the Common Stock of Gen Probe Incorporated at April 30, 2005 is true, complete and correct.

May 10, 2005 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. and its direct and indirect
subsidiaries

SCHEDULE 13G - TO BE INCLUDED IN STATEMENTS

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

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 Corp. and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 7,530,800 shares or 14.941% of the Common Stock outstanding of Gen Probe 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.

The ownership of one investment company, Fidelity Growth Company Fund, amounted to 2,840,000 shares or 5.635% of the Common Stock outstanding. Fidelity Growth Company Fund has its principal business office at 82 Devonshire Street, Boston, Massachusetts 02109.

Edward C. Johnson 3d, FMR Corp., through its control of Fidelity, and the funds each has sole power to dispose of the 7,530,800 shares owned by the Funds.

Neither FMR Corp. nor Edward C. Johnson 3d, Chairman of FMR Corp., 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 Management Trust Company, 82 Devonshire Street, Boston, Massachusetts 02109, a wholly-owned subsidiary of FMR Corp. and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934, is the beneficial owner of 24,300 shares or 0.048% of the Common Stock outstanding of the Company as a result of its serving as investment manager of the institutional account(s).

Edward C. Johnson 3d and FMR Corp., through its control of Fidelity Management Trust Company, each has sole dispositive power over 24,300 shares and sole power to vote or to direct the voting of 24,300 shares of Common Stock owned by the institutional account(s) as reported above

Strategic Advisers, Inc., 82 Devonshire Street, Boston, MA 02109, a wholly-owned subsidiary of FMR Corp. and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, provides investment advisory services to individuals. As such, FMR Corp.'s beneficial ownership includes 154 shares, or 0.000%, of the Common Stock stock outstanding of Gen Probe Incorporated, beneficially owned through Strategic Advisers, Inc.

Members of the Edward C. Johnson 3d family are the predominant owners of Class B shares of common stock of FMR Corp., representing approximately 49% of the voting power of FMR Corp. Mr. Johnson 3d owns 12.0% and Abigail Johnson owns 24.5% of the aggregate outstanding voting stock of FMR Corp. Mr. Johnson 3d is Chairman of FMR Corp. and Abigail P. Johnson is a Director of FMR Corp. The Johnson family group and all other Class B shareholders have entered into a shareholders' voting agreement under which all Class B shares will be voted in accordance with the majority vote of Class B shares.

Accordingly, through their ownership of voting common stock 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 Corp.

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 May 10, 2005, 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 Gen Probe Incorporated at April 30, 2005.

FMR Corp.

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. 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

Abigail P. Johnson

By /s/ Eric D. Roiter Eric D. Roiter Duly authorized under Power of Attorney dated December 30, 1997, by and on behalf of Abigail P. Johnson

Fidelity Management & Research Company

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

Fidelity Growth Company Fund

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