

TRIMBLE NAVIGATION LTD /CA/  
Form SC 13G/A  
August 10, 2005

SCHEDULE 13G

Amendment No. 1  
Trimble Navigation Limited  
Common Stock  
Cusip #896239100

Cusip #896239100  
Item 1: Reporting Person - FMR Corp.  
Item 4: Delaware  
Item 5: 126,500  
Item 6: 0  
Item 7: 5,942,092  
Item 8: 0  
Item 9: 5,942,092  
Item 11: 11.261%  
Item 12: HC

Cusip #896239100  
Item 1: Reporting Person - Edward C. Johnson 3d  
Item 4: United States of America  
Item 5: 0  
Item 6: 0  
Item 7: 5,942,092  
Item 8: 0  
Item 9: 5,942,092  
Item 11: 11.261%  
Item 12: IN

Cusip #896239100  
Item 1: Reporting Person - Abigail P. Johnson  
Item 4: United States of America  
Item 5: 0  
Item 6: 0  
Item 7: 5,942,092  
Item 8: 0  
Item 9: 5,942,092  
Item 11: 11.261%  
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:  
Trimble Navigation Limited  
Item 1(b). Name of Issuer's Principal Executive Offices:

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749 N. Mary Ave.  
Sunnyvale, California 94085

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:

896239100

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: 5,942,092
- (b) Percent of Class: 11.261%
- (c) Number of shares as to which such person has:
  - (i) sole power to vote or to direct the vote: 126,500
  - (ii) shared power to vote or to direct the vote: 0
  - (iii) sole power to dispose or to direct the disposition of: 5,942,092
  - (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

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direct the receipt of dividends from, or the proceeds from the sale of, the Common Stock of Trimble Navigation Limited. 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 Trimble Navigation Limited, amounted to 3,332,500 shares or 6.316% of the total outstanding Common Stock at July 31, 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 Trimble Navigation Limited at July 31, 2005 is true, complete and correct.

August 10, 2005  
Date

/s/Joseph Mari  
Signature

Joseph Mari  
Duly authorized under Power of Attorney  
dated July 20, 2005, by Eric D. Roiter 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

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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 5,815,592 shares or 11.022% of the Common Stock outstanding of Trimble Navigation Limited ("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 3,332,500 shares or 6.316% 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 5,815,592 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 126,500 shares or 0.240% 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 126,500 shares and sole power to vote or to direct the voting of 126,500 shares of Common Stock owned by the institutional account(s) as reported above.

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.

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STATEMENTS

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

The undersigned persons, on August 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 Trimble Navigation Limited at July 31, 2005.

FMR Corp.

By /s/ Joseph Mari  
Joseph Mari  
Duly authorized under Power of Attorney  
dated July 20, 2005, by Eric D. Roiter by and on behalf  
of FMR Corp. and its direct and indirect subsidiaries

Edward C. Johnson 3d

By /s/ Joseph Mari  
Joseph Mari  
Duly authorized under Power of Attorney  
dated July 20, 2005, by Eric D. Roiter by and on behalf  
of Edward C. Johnson 3d

Abigail P. Johnson

By /s/ Joseph Mari  
Joseph Mari  
Duly authorized under Power of Attorney  
dated July 20, 2005, by Eric D. Roiter by and on behalf  
of Abigail P. Johnson

Fidelity Management & Research Company

By /s/ Joseph Mari  
Joseph Mari  
Duly authorized under Power of Attorney dated July  
20, 2005, by Eric D. Roiter Secretary

Fidelity Growth Company Fund

By /s/ Joseph Mari  
Joseph Mari  
Duly authorized under Power of Attorney dated July  
20, 2005, by Eric D. Roiter Secretary