SPIRENT COMMUNICATIONS PLC

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Form SC 13G/A
September 11, 2006
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SCHEDULE 13G
Amendment No. 1
SPIRENT plc
Common Stock
Cusip #G83562101
Cusip #G83562101
Item 1: Reporting Person - FMR Corp.
Item 4: Delaware
Item 5: 196,866
Item 6: 0
Item 7: 196,866
Item 8: 0
Item 9: 196,866
Item 11: 0.021%
Item 12:
Cusip #G83562101
Item 1: Reporting Person - Edward C. Johnson 3d
Item 4: United States of America
Item 5: 0
Item 6: 0
Item 7: 196,866
Item 8: 0
Item 9: 196,866
Item 11: 0.021%
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:
                SPIRENT plc
Item 1(b).
                Name of Issuer's Principal Executive Offices:
                Spirent House
                Crawley Business Quarter, Fleming
Way
                West Sussex
               Name of Person Filing:
Item 2(a).
                FMR Corp.
Item 2(b).
                Address or Principal Business Office or, if None,
Residence:
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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:

G83562101

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: 196,866
- (b) Percent of Class: 0.021%
- (c) Number of shares as to which such person has:
- (i) sole power to vote or to direct the vote: 196,866
- (ii) shared power to vote or to direct the vote: $\ensuremath{\text{0}}$
- (iii) sole power to dispose or to direct the disposition of: 196,866
- (iv) shared power to dispose or to direct the disposition of: $\ensuremath{\text{0}}$

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.

September 11, 2006 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)

Members of the family of Edward C. Johnson 3d, Chairman of FMR Corp., are the predominant owners, directly or through trusts, of Series B shares of common stock of FMR Corp., representing 49% of the voting power of FMR Corp. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B shares will be voted in accordance with the majority vote of Series 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.

Fidelity International Limited ("FIL"), Pembroke Hall, 42 Crow Lane, Hamilton, Bermuda, and various foreign-based subsidiaries provide investment advisory and management services to a number of non-U.S. investment companies and certain institutional investors. FIL, which is a qualified institution under section 240.13d-1(b)(1) pursuant to an SEC

No-Action letter dated October 5, 2000, is the beneficial owner of 196,866 shares or 0.021% of the Common Stock outstanding of the Company.

Partnerships controlled predominantly by members of the family of Edward C. Johnson 3d, Chairman of FMR Corp. and FIL, or trusts for their benefit, own shares of FIL voting stock with the right to cast approximately 47% of the total votes which may be cast by all holders of FIL voting stock. FMR Corp. and FIL are separate and independent corporate entities, and their Boards of Directors are generally composed of different individuals.

FMR Corp. and FIL are of the view that they are not acting as a "group" for purposes of Section 13(d) under the Securities Exchange Act of 1934 (the "1934" Act) and that they are not otherwise required to attribute to each other the "beneficial ownership" of securities "beneficially owned" by the other corporation within the meaning of Rule 13d-3 promulgated under the 1934 Act. Therefore, they are of the view that the shares held by the other corporation need not be aggregated for purposes of Section 13(d). However, FMR Corp. is making this filing on a voluntary basis as if all of the shares are beneficially owned by FMR Corp. and FIL on a joint basis.

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 September 11, 2006, 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 SPIRENT plc at August 31, 2006.

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 ${\sf Corp.}$

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