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SPIRENT COMMUNICATIONS PLC

Form 6-K

January 19, 2007

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16
UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of January, 2007

SPIRENT COMMUNICATIONS plc

(Translation of registrant's name into English)

Spirent House, Crawley Business Quarter, Fleming Way, Crawley, West Sussex
RH10 9QL, UK.

(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F X Form 40-F.....

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes No X

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82- _____

SPIRENT COMMUNICATIONS PLC

VOTING RIGHTS AND CAPITAL - TRANSPARENCY DIRECTIVE DISCLOSURE

London, UK - 19 January 2007: Spirent Communications plc ("the Company") (LSE: SPT; NYSE: SPM), a leading communications technology company would like to notify the market in compliance with the Transparency Directive's transitional provision 6, of the following information as at 19 January 2007:

The Company's issued share capital consists of 975,928,136 ordinary shares of 3 & 1/3 pence with voting rights. The Company holds 90,251,487 ordinary shares in Treasury, and the Company is not permitted to exercise voting rights in respect of those ordinary shares. Therefore, the total number of voting rights in the Company is 885,676,649.

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Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

_____MICHAEL ANSCOMBE_____

(Registrant)

Date: 19 January, 2007

By ____/s/ Michael Anscombe_____

(Signature)*