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SPIRENT COMMUNICATIONS PLC

Form 6-K

September 15, 2006

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 September 2006

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 announces that on 15 September 2006 it purchased from JPMorgan Cazenove Limited 1,000,000 Spirent Communications plc ordinary shares at an average price of 48.7364 pence per share. The purchased shares will be held as treasury shares. Following the above purchase, Spirent Communications plc holds 60,840,000 Spirent Communications plc ordinary shares in treasury, and has 911,185,762 Spirent Communications plc ordinary shares in issue (excluding treasury shares).

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

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undersigned, thereunto duly authorized.

____MICHAEL ANSCOMBE____

(Registrant)

Date: September 15, 2006

By ____/s/ Michael Anscombe____

(Signature)*