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SPIRENT COMMUNICATIONS PLC

Form 6-K

August 02, 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 August, 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 2 August 2006 it purchased from
JPMorgan Cazenove Limited 1,250,000 Spirent Communications plc ordinary shares
at an average price of 33.5229 pence per share. The purchased shares will be
held as treasury shares. Following the above purchase, Spirent Communications
plc holds 39,390,000 Spirent Communications plc ordinary shares in treasury, and
has 931,586,070 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
undersigned, thereunto duly authorized.

MICHAEL ANSCOMBE

(Registrant)

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Date 2 August, 2006

By ____/s/ Michael Anscombe____

(Signature)*