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SPIRENT COMMUNICATIONS PLC

Form 6-K

August 29, 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 August, 2007

SPIRENT COMMUNICATIONS plc

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(Translation of registrant's name into English)

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

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(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: Transaction in own shares

Spirent Communications plc announces that it has today purchased through ABN AMRO Bank NV 2,700,000 ordinary shares at an average price of 62.72 pence per share. The highest price and the lowest price paid for these shares were 63.0 pence and 62.0 pence respectively. Spirent Communications plc intends to hold the purchased shares in treasury.

Following the purchase of these shares, Spirent Communications plc holds 79,445,000 of its ordinary shares in treasury and has 884,586,304 ordinary shares in issue (excluding treasury shares). This figure (884,586,304) represents the total voting rights in the Company and may be used by shareholders as the denominator for the calculations by which they can determine if they are required to notify their interest in, or a change to their interest the Company under the Financial Services Authority's Disclosure and Transparency Rules.

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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: 29 August 2007

By \_\_\_\_\_/s/ Michael Anscombe\_\_\_\_\_

(Signature)\*