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SPIRENT COMMUNICATIONS PLC

Form 6-K

April 02, 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 April, 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 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 250,000 ordinary shares at an average price of 60.9 pence
per share. The highest price and the lowest price paid for these shares were
61 pence and 60.75 pence respectively. Spirent Communications plc intends to
hold the purchased shares in treasury.

Following the purchase of these shares, Spirent Communications plc holds
74,260,000 of its ordinary shares in treasury and has 882,644,785 ordinary
shares in issue (excluding treasury shares). This figure (882,644,785)
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

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in, the Company under the Financial Services Authority's Disclosure and Transparency Rules.

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: 02 April, 2007

By _____/s/ Michael Anscombe_____

(Signature)*