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SPIRENT COMMUNICATIONS PLC

Form 6-K

April 16, 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

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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  
16 April 2007

Spirent Communications plc announces that it has put in place an irrevocable, non-discretionary programme allowing the buy back of Spirent Communications plc shares during the prohibited period which precedes the announcement of the results of the operating and strategic review, with such announcement expected to be in advance of its Annual General Meeting scheduled for 9 May 2007.

Any purchases pursuant to these arrangements will be effected during the period between 16 April 2007 and the business day prior to the announcement of the results of the operating and strategic review, within certain pre-set parameters and will be in accordance with the company's general authority to repurchase shares.

Any shares repurchased will be held as Treasury shares.

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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: 16 April, 2007

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

(Signature)\*