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SPIRENT COMMUNICATIONS PLC

Form 6-K

May 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 May , 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 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- _____

Form TR-1 with annex. FSA Version 2.1 updated April 2007

TR-1: Notification of Major Interests in Shares

1. Identity of the issuer or the underlying issuer of

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existing shares to which voting rights are attached: Spirent Communications plc

2. Reason for notification (yes/no)

An acquisition or disposal of voting rights X

An acquisition or disposal of financial instruments which may result in the acquisition of shares already issued to which voting rights are attached

An event changing the breakdown of voting rights

Other (please specify): _____

3. Full name of person(s) subject to notification obligation: BlackRock, Inc

4. Full name of shareholder(s) (if different from 3):

5. Date of transaction (and date on which the threshold is crossed or reached if different): 22nd May 2007

6. Date on which issuer notified: 25th May 2007

7. Threshold(s) that is/are crossed or reached: Gone above 5%

8: Notified Details

A: Voting rights attached to shares

Class/type of shares	Situation previous to the triggering transaction		Resulting situation after the triggering transaction				
	Number of shares	Number of voting rights	Number of shares	Number of voting rights	Percentage of voting rights		
If possible use ISIN code				Direct	Indirect	Direct	Indi
GB0004726096	N/A	N/A	N/A	N/A	44,428,430	N/A	5

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B: Financial Instruments

Resulting situation after the triggering transaction

Type of financial instrument	Expiration date	Exercise/ conversion period/date	No. of voting rights that may be acquired (if the instrument exercised/converted)	Percentage of rights
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Total (A+B)

Number of voting rights	Percentage of voting rights
44,428,430	5.04%

9. Chain of controlled undertakings through which the voting rights and /or the financial instruments are effectively held, if applicable:

BlackRock Investment Management (UK) Limited - 44,428,430 (5.04%)

Proxy Voting:

10. Name of proxy holder:

11. Number of voting rights proxy holder will cease to hold:

12. Date on which proxy holder will cease to hold voting rights:

13. Additional information:

14 Contact name: Thomas Hone

15. Contact telephone name: 020 7743 2098

C: Additional information

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Contact at Issuer: Michael Anscombe, Deputy Company Secretary, Spirent Communications plc

Telephone: 01293 767672

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 May, 2007

By ____/s/ Michael Anscombe____

(Signature)*