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SPIRENT COMMUNICATIONS PLC

Form 6-K

May 22, 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

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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- \_\_\_\_\_

TR-1: NOTIFICATION OF MAJOR INTERESTS IN SHARES

1. Identity of the issuer or the underlying issuer of existing shares to which voting rights are attached:

Spirent Communications plc

2. Reason for the notification              (please tick the appropriate box or boxes)

An acquisition or disposal of voting rights - DISPOSAL              X

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

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An event changing the breakdown of voting rights

Other (please specify)

3. Full name of person(s) subject to the notification obligation:

(i) Lexa BV

(ii) Goran Ennerfelt (a non-executive director of Spirent Communications plc) has a connected interest in the shareholding of Lexa BV. This is due to the fact that he is President and Chief Executive Officer of Axel Johnson AB, a member of the Axel Johnson group which owns Lexa BV.

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

-

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

22 May 2007

6. Date on which issuer notified:

22 May 2007

7. Threshold(s) that is/are crossed or reached:

Below 10 %

8. Notified details:

Sold 40,400,000 Ordinary shares

A: Voting rights attached to shares

Class/type of shares	Situation previous to the Triggering transaction	Resulting situation after the triggering transaction				
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if possible using the ISIN CODE	Number of Shares	Number of Voting Rights viii	Number of shares Direct	Number of voting rights Direct x	Indirect xi	% of voting Direct
Ordinary shares	90,400,000	90,400,000	50,000,000	50,000,000	N/A	5.67

ISIN:  
GB0004726096

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### B: Financial Instruments

Resulting situation after the triggering transaction

Type of financial instrument	Expiration date	Exercise/ Conversion Period/ Date	Number of voting rights that may be acquired if the instrument is exercised/ converted.	% of voting rights
N/A	N/A	N/A	N/A	N/A

Total (A+B) Number of voting rights	% of voting rights
50,000,000	5.67%

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

(i) Lexa BV

(ii) Goran Ennerfelt (a non-executive director of Spirent Communications plc) has a connected interest in the shareholding of Lexa BV. This is due to the fact that he is President and Chief Executive Officer of Axel Johnson AB, a member of the Axel Johnson Group which owns Lexa BV.

### Proxy Voting:

10. Name of the proxy holder: N/A

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

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

13. Additional information: N/A

14. Contact name: Arie Bouman - Managing Director, LEXA BV

15. Contact telephone number: +31 (0)20 471 3438

### C: Additional information

Contact at Issuer: Michael Anscombe, Deputy Company Secretary,

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Spirent Communications plc

Telephone: 01293 767676

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: 22 May, 2007

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

(Signature)\*