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SPIRENT COMMUNICATIONS PLC

Form 6-K

August 31, 2006

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, 2006

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- _____

NOTIFICATION OF MAJOR INTERESTS IN SHARES

1. Name of listed company

SPIRENT COMMUNICATIONS PLC

2. Name of shareholder with a major interest

LEXA B.V.

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3. Please state whether notification indicates that regarding the holding of the shareholder named in 2 above; in respect of a non-beneficial interest; or in the case of an individual holder if it is a holding of that person's spouse or children under the age of 18

IN RESPECT OF THE BENEFICIAL HOLDING OF LEXA B.V.

4. Name of the registered holder(s) and, if more than one holder, the number of shares held by each of them

LEXA B.V.

5. Number of shares / amount of stock acquired

N/A

6. Percentage of issued class (any treasury shares held by the listed company should not be taken into account when calculating percentage)

N/A

7. Number of shares / amount of stock disposed

N/A

8. Percentage of issued class (any treasury shares held by the listed company should not be taken into account when calculating percentage)

N/A

9. Class of security

ORDINARY SHARES OF 3 & 1/3 PENCE EACH

10. Date of transaction

30 AUGUST 2006 (SEE ADDITIONAL INFORMATION)

11. Date company informed

30 AUGUST 2006

12. Total holding following this notification

120,000,000 ORDINARY SHARES

13. Total percentage holding of issued class following this notification (any treasury shares held by the listed company should not be taken into account when calculating percentage)

13.03%

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14. Any additional information

SPIRENT COMMUNICATIONS PLC IS CURRENTLY OPERATING A SHARE BUY BACK PROGRAMME AND AS AT 30 AUGUST 2006 HAD PURCHASED 50,990,000 SPIRENT COMMUNICATIONS PLC ORDINARY SHARES OF 3&1/3 PENCE INTO TREASURY OUT OF A TOTAL ISSUED SHARE CAPITAL OF 971,934,304 SHARES. AS SHARES HELD IN TREASURY ARE NOT INCLUDED IN THE CALCULATION OF HOLDINGS OF MAJOR SHAREHOLDERS A CONSEQUENCE OF THE BUY-BACK PROGRAMME HAS BEEN THAT THE PERCENTAGE HOLDING OF LEXA B.V. HAS INCREASED FROM 12.4% OF THE ISSUED SHARE CAPITAL TO 13.03% OF THE ISSUED SHARE CAPITAL, ALTHOUGH THE ACTUAL NUMBER OF SHARES HELD OF 120,000,000 REMAINS UNCHANGED.

15. Name of contact and telephone number for queries

WARREN NASH - 01293 767676

16. Name and signature of duly authorised company official of the listed company responsible for making this notification

WARREN NASH

Date of notification

31 AUGUST 2006

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 ___ 31 August 2006

By ____/s/ Michael Anscombe_____

(Signature)*