SPIRENT COMMUNICATIONS PLC
Form 6-K
August 24, 2006

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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

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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- _____

NOTIFICATION OF MAJOR INTERESTS IN SHARES

1. Name of listed company

SPIRENT COMMUNICATIONS PLC

2. Name of shareholder with a major interest

SHERBORNE INVESTORS GP, LLC

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

AS IN 2 ABOVE - SEE ADDITIONAL INFORMATION BELOW

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

NOT KNOWN - SEE ADDITIONAL INFORMATION BELOW

5. Number of shares / amount of stock acquired

NOT DISCLOSED

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

NOT KNOWN

11. Date company informed

24 AUGUST 2006

12. Total holding following this notification

121,371,538 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)

13.10%

14. Any additional information

THE FOLLOWING ARE ALL NAMED AS INTERESTED PARTIES IN THE NOTIFICATION RECEIVED
BY THE COMPANY:

SHERBORNE INVESTORS GP, LLC
SHERBORNE INVESTORS CO., LP
EDWARD BRAMSON (THE MANAGING MEMBER OF SHERBORNE INVESTORS GP, LLC)
CRAIG MCKIBBEN AND GERARD EASTMAN (AS MEMBERS OF SHERBORNE INVESTORS GP, LLC

THE HOLDERS OF THE SHARES AS REGISTERED ON THE COMPANY'S REGISTER OF MEMBERS ARE
NOT KNOWN.

THE NOTIFICATION ALSO DISCLOSES (IN ACCORDANCE WITH THE COMPANIES ACT 1985) THAT
THE FOLLOWING THREE ENTITIES HOLD SPIRENT COMMUNICATIONS PLC ORDINARY SHARES AS
DETAILED BELOW – THESE PERCENTAGE HOLDINGS ARE INCLUDED IN THE TOTAL 13.10%
DISCLOSED ABOVE (NOT IN ADDITION TO IT):

HAYDEN INVESTORS PARTNERS, LLC : 4.50% OF ISSUED SHARE CAPITAL
HAYDEN INVESTORS PARTNERS II, LLC: 4.02% OF ISSUED SHARE CAPITAL
HANOVER STRATEGIC FUND A, LLC: 3.15% OF ISSUED SHARE CAPITAL

15. Name of contact and telephone number for queries

MICHAEL ANSCOMBE – 01293 767676

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

MICHAEL ANSCOMBE
DEPUTY COMPANY SECRETARY

Date of notification

24 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: 24 August 2006   By   ____/s/ Michael Anscombe____

                                         (Signature)*