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SPIRENT COMMUNICATIONS PLC  
Form 6-K  
January 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 January, 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- \_\_\_\_\_

TR-1(i):                          notification of major interests in shares

1. Identity of the issuer or the underlying issuer of existing                  Spirent Communications plc  
shares to which voting rights are attached(ii):

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

An acquisition or disposal of voting rights    o

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

An event changing the breakdown of voting rights    o

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Other (please specify): Initial notification due to change of thresholds for non-material interest X

3. Full name of person(s) subject to the notification obligation(iii): Prudential plc group of Companies

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

Shareholder No of shares

Magim HSBC Nom (UK) Sali	553,940
Nortrust Nominee Ltd (A/C: MHF01)	202,221
Nortrust Nominee Ltd (A/C: MHJ01)	12,239,916
Nortrust Noms Ltd	530,506
Nortrust Noms Ltd (A/C: PUF01)	825,676
Nortrust Noms Ltd (A/C: PUI01)	104,457
Nortrust Noms Ltd (A/C: PUR01)	9,804,783
Pruclt HSBC GIS Nom (UK) PAC AC	28,473,727
Pruclt HSBC GIS Nom (UK) PPL AC	6,095,990
Pruclt HSBC GIS Nom (UK) EQBF AC	262,947
Pruclt HSBC GIS Nom (UK) MNBF AC	398,858
Pruclt HSBC GIS Nom (UK) PENE A/C	1,625,364

5. Date of the transaction (and date on which the threshold is crossed or reached if different) (v): 20 January 2007

6. Date on which issuer notified: 29 January 2007

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

8. Notified details:

### A: Voting rights attached to shares

Class/type of shares	Situation previous to the Triggering transaction (vi)		Resulting situation after the triggering transaction(v)			
if possible using the ISIN CODE	Number of Shares	Number of Voting Rights viii	Number of shares Direct	Number of voting rights ix Direct x	Indirect xi	% of voting rights Direct Indir
GB0004726096	61,118,385	61,118,385	61,118,385	61,118,385		6.90%

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B: Financial Instruments

Resulting situation after the triggering transaction xii

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

Total (A+B)

Number of voting rights 61,118,385	% of voting rights 6.90%
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9. Chain of controlled undertakings through which the voting rights and/or the financial instruments are effectively held, if applicable xv:

(See 4 above)

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: None

14. Contact name: Emma Thompson

15. Contact telephone number: 020 7548 2293

Additional information

Contact at Issuer: Michael Anscombe (Deputy Company Secretary)

Spirent Communications plc

Telephone: 01293 767676

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NOTES:

(i) This form is to be sent to the issuer or underlying issuer and to be filed with the competent authority.

(ii) Either the full name of the legal entity or another method for identifying the issuer or underlying issuer, provided it is reliable and accurate.

(iii) This should be the full name of (a) the shareholder; (b) the person acquiring, disposing of or exercising voting rights in the cases provided for in DTR5.2.1 (b) to (h); (c) all the parties to the agreement referred to in DTR5.2.1 (a), or (d) the direct or indirect holder of financial instruments entitled to acquire shares already issued to which voting rights are attached, as appropriate.

In relation to the transactions referred to in points DTR5.2.1 (b) to (h), the following list is provided as indication of the persons who should be mentioned:

- in the circumstances foreseen in DTR5.2.1 (b), the person that acquires the voting rights and is entitled to exercise them under the agreement and the natural person or legal entity who is transferring temporarily for consideration the voting rights;
- in the circumstances foreseen in DTR 5.2.1 (c), the person holding the collateral, provided the person or entity controls the voting rights and declares its intention of exercising them, and person lodging the collateral under these conditions;
- in the circumstances foreseen in DTR5.2.1(d), the person who has a life interest in shares if that person is entitled to exercise the voting rights attached to the shares and the person who is disposing of the voting rights when the life interest is created;
- in the circumstances foreseen in DTR5.2.1 (e), the parent undertaking and, provided it has a notification duty at an individual level under DTR 5.1, under DTR5.2.1 (a) to (d) or under a combination of any of those situations, the controlled undertaking;
- in the circumstances foreseen in DTR5.2.1 (f), the deposit taker of the shares, if he can exercise the voting rights attached to the shares deposited with him at his discretion, and the depositor of the shares allowing the deposit taker to exercise the voting rights at his discretion;
- in the circumstances foreseen in DTR5.2.1 (g), the person that controls the voting rights;

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- in the circumstances foreseen in DTR5.2.1 (h), the proxy holder, if he can exercise the voting rights at his discretion, and the shareholder who has given his proxy to the proxy holder allowing the latter to exercise the voting rights at his discretion.

(iv) Applicable in the cases provided for in DTR 5.2.1 (b) to (h). This should be the full name of the shareholder or holder of financial instruments who is the counterparty to the natural person or legal entity referred to in DTR5.2.

(v) The date of the transaction should normally be, in the case of an on exchange transaction, the date on which the matching of orders occurs; in the case of an off exchange transaction, date of the entering into an agreement.

The date on which threshold is crossed should normally be the date on which the acquisition, disposal or possibility to exercise voting rights takes effect (see DTR 5.1.1R (3)). For passive crossings, the date when the corporate event took effect.

These dates will usually be the same unless the transaction is subject to a condition beyond the control of the parties.

(vi) Please refer to the situation disclosed in the previous notification, In case the situation previous to the triggering transaction was below 3%, please state 'below 3%'.

vii If the holding has fallen below the minimum threshold , the notifying party should not be obliged to disclose the extent of the holding, only that the new holding is less than 3%.

For the case provided for in DTR5.2.1(a), there should be no disclosure of individual holdings per party to the agreement unless a party individually crosses or reaches an Article 9 threshold. This applies upon entering into, introducing changes to or terminating an agreement.

viii Direct and indirect

ix In case of combined holdings of shares with voting rights attached ' direct holding' and voting rights 'indirect holdings', please split the voting rights number and percentage into the direct and indirect columns-if there is no combined holdings, please leave the relevant box blank.

X Voting rights attached to shares in respect of which the notifying party is a direct shareholder (DTR 5.1)

xi Voting rights held by the notifying party as an indirect shareholder (DTR 5.2.1)

xii If the holding has fallen below the minimum threshold, the notifying party should not be obliged to disclose the extent of the holding, only that the new holding is below 3%.

xiii date of maturity / expiration of the financial instrument i.e. the date when the right to acquire shares ends.

xiv If the financial instrument has such a period-please specify the period- for example once every three months starting from the (date)

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xv The notification should include the name(s) of the controlled undertakings through which the voting rights are held. The notification should also include the amount of voting rights and the percentage held by each controlled undertaking, insofar as individually the controlled undertaking holds 3% or more, and insofar as the notification by the parent undertaking is intended to cover the notification obligations of the controlled undertaking.

xvi This annex is only to be filed with the competent authority.

xvii Whenever another person makes the notification on behalf of the shareholder or the natural person/legal entity referred to in DTR5.2 and DTR5.3.

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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: 29 January, 2007

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

(Signature)\*