

SPIRENT COMMUNICATIONS PLC

Form SC 13G

February 08, 2008

SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

SCHEDULE 13G
(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO RULES 13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED
PURSUANT TO RULE 13d-2(b)

(Amendment No.:)*

SPIRENT COMMUNICATIONS PLC

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

0472609

(SEDOL NUMBER)

December 31, 2007

(Date of Event Which Requires Filing of this Statement)

CHECK THE APPROPRIATE BOX TO DESIGNATE THE RULE PURSUANT TO WHICH THIS
SCHEDULE IS FILED:

- Rule 13d-1 (b)
- Rule 13d-1 (c)
- Rule 13d-1 (d)

*The remainder of this cover page shall be filled out for a reporting
person's initial filing on this form with respect to the subject class of
securities, and for any subsequent amendment containing information which
would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be
deemed to be "filed" for the purpose of Section 18 of the Securities
Exchange Act of 1934 (the "Act") or otherwise subject to the liabilities
of that section of the Act but shall be subject to all other provisions
of the Act (however, see the Notes).

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SEDOL No. 0472609 13G

1. NAME OF REPORTING PERSON

I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)

BlackRock, Inc.

(on behalf of its investment advisory subsidiaries - See Item 7)

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP Joint Filing

(a)

(b)

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICALLY OWNED BY EACH REPORTING PERSON WITH

5. SOLE VOTING POWER

NONE

6. SHARED VOTING POWER

60,269,363

7. SOLE DISPOSITIVE POWER

NONE

8. SHARED DISPOSITIVE POWER

60,269,363

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

60,269,363 (ownership disclaimed pursuant to Rule 13d-4 of the 1934 Act)

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

7.61%

12. TYPE OF REPORTING PERSON

HC, CO

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ITEM 1 (a) Name of Issuer:

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SPIRENT COMMUNICATIONS PLC (the "Company")

ITEM 1 (b) Address of Issuer's Principal Executive Offices:

Spirent House
Crawley Business Quarter
Crawley West Sussex, RH10 9QL
United Kingdom

ITEM 2 (a) Name of Person Filing:

BlackRock, Inc.
(on behalf of its investment advisory subsidiaries - See Item 7)

ITEM 2 (b) Address of Principal Business Office or, if none, Residence:

BlackRock, Inc.
40 East 52nd Street
New York, NY 10022

ITEM 2 (c) Citizenship:

See Item 4 of Cover Page

ITEM 2 (d) Title of Class Securities:

Common Stock

ITEM 2 (e) SEDOL NUMBER:

See Cover Page

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ITEM 3

If this statement is filed pursuant to SS 240.13d-1(b) or
240.13d-2(b) OR (c), check whether the person filing is a:

- (a) Broker or dealer registered under Section 15 of the Act (15 U.S.C 78c),
- (b) Bank as defined in Section 3(a) (6) of the Act (15 U.S.C 78c),
- (c) Insurance Company as defined in Section 3(a) (19) of the Act
(15 U.S.C 78c),
- (d) Investment Company registered under Section 8 of the Investment
Company Act of 1940 (15 U.S.C 80a-8),
- (e) Investment Adviser in accordance with SS 240. 13d-1(b) (1) (ii) (E),
- (f) Employee Benefit Plan or Endowment Fund in accordance with

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- SS 240. 13d-1(b) (ii) (F),
- (g) Parent Holding Company or Control Person in accordance with SS.SS.240. 13d-1(b) (ii) (G); see Item 7,
 - (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813),
 - (i) A church plan that is excluded from the definition of an investment company under Section 3(c) (14) of the Investment Company Act of 1940(15 U.S.C 80a-3),
 - (j) Group, in accordance with SS 240. 13d-1(b) (1) (ii) (J).

ITEM 4 Ownership

-
- (a) Amount Beneficially Owned:

See Item 9 of Cover Page.

- (b) Percent of Class:

See Item 11 of Cover Page

- (c) Number of shares as to which such person has:

- (i) sole power to vote or to direct the vote:

See Item 5 of Cover page

- (ii) shared power to vote or to direct the vote:

See Item 6 of Cover page

- (iii) sole power to dispose or to direct the disposition of:

See Item 7 of Cover page

- (iv) shared power to dispose or to direct the disposition of:

See Item 8 of Cover page

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ITEM 5 Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following:

ITEM 6 Ownership of More than Five Percent on Behalf of Another Person.

BlackRock, Inc. is a parent holding company for a number of investment management subsidiaries. Certain of these subsidiaries hold shares of the security which is the subject of this report. (See Item 7).

ITEM 7 Identification and Classification of the Subsidiary Which

Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

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The following subsidiaries of BlackRock, Inc. are investment advisors
which hold shares of the security being reported;

BlackRock Advisors LLC
BlackRock (Channel Islands) Ltd
BlackRock (Isle of Man) Ltd
BlackRock (Netherlands) B.V.
BlackRock Fund Managers Ltd
BlackRock Pension Limited
BlackRock Investment Management UK Ltd

ITEM 8 Identification and Classification of Members of the Group.

Not Applicable

ITEM 9 Notice of Dissolution of Group.

Not Applicable

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ITEM 10 Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of such securities and were not acquired and are not held in connection with or as a participant in any transaction having such purpose or effect.

Signature.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 08, 2008

BlackRock, Inc. (on behalf of its investment advisory subsidiaries)

BlackRock Advisors LLC
BlackRock (Channel Islands) Ltd
BlackRock (Isle of Man) Ltd
BlackRock (Netherlands) B.V.
BlackRock Fund Managers Ltd
BlackRock Pension Limited
BlackRock Investment Management UK Ltd

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/s/ Denis Molleur

Name: Denis Molleur
Title: Attorney-In-Fact*

*Signed pursuant to a power of attorney, dated January 11, 2008, included as Exhibit A to this Schedule 13G filed with the Securities and Exchange Commission by BlackRock, Inc.

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EXHIBIT A

POWER OF ATTORNEY

The undersigned, BLACKROCK, INC., a corporation duly organized under the laws of the State of Delaware, United States (the "Company"), does hereby make, constitute and appoint each of Robert Connolly, Howard Surloff, Edward Baer, James DesMarais, Bartholomew Battista, Daniel Waltcher, Vincent Tritto, Karen Clark, Denis Molleur, Daniel Ronnen, Daniel Moonay, Nicholas Hall, Con Tzatzakis and Junichi Yoshioka acting severally, as its true and lawful attorneys-in-fact, for the purpose of, from time to time, executing in its name and on its behalf, whether the Company is acting individually or as representative of others, any and all documents, certificates, instruments, statements, other filings and amendments to the foregoing (collectively, "documents") determined by such person to be necessary or appropriate to comply with ownership or control-person reporting requirements imposed by any United States or non-United States governmental or regulatory authority, including without limitation Forms 3, 4, 5, 13D, 13F and 13G and any amendments to any of the foregoing as may be required to be filed with the Securities and Exchange Commission, and delivering, furnishing or filing any such documents with the appropriate governmental, regulatory authority or other person, and giving and granting to each such attorney-in-fact power and authority to act in the premises as fully and to all intents and purposes as the Company might or could do if personally present by one of its authorized signatories, hereby ratifying and confirming all that said attorney-in-fact shall lawfully do or cause to be done by virtue hereof. Any such determination by an attorney-in-fact named herein shall be conclusively evidenced by such person's execution, delivery, furnishing or filing of the applicable document.

This power of attorney shall expressly revoke the power of attorney dated October 4, 2006 in respect of the subject matter hereof, shall be valid from the date hereof and shall remain in full force and effect until either revoked in writing by the Company, or, in respect of any attorney-in-fact named herein, until such person ceases to be an employee of the Company or one of its affiliates.

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IN WITNESS WHEREOF, the undersigned has caused this power of attorney to be executed as of this 11th day of January, 2008.

BLACKROCK, INC.

By: /s/ Robert W. Doll, Jr.

Name: Robert W. Doll, Jr.

Title: Vice Chairman