SPIRENT PLC Form 6-K February 28, 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 February, 2006

SPIRENT 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 PLC

2. Name of shareholder with a major interest

BARCLAYS PLC

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

SHAREHOLDER IN 2 ABOVE

4. Name of the registered holder(s) and, if more than one holder, the number of

shares held by each of them

Registered Holder BANK OF IRELAND	Account Designation 258227	Holdin 888,55
BANK OF IRELAND	4239749	1,483,29
Bank of Ireland Nominees Limited	CREST ID. 11X13	1,299,00
BANK OF NEW YORK	210405	1,009,02
BANK OF NEW YORK	214075	5,492,76
BANK OF NEW YORK	221428	832,83
BANK OF NEW YORK	367748	2,907,09
BANK OF NEW YORK	392067	3,326,32
BANK OF NEW YORK	768198	257,32
BARCLAYS CAPITAL NOMINEES LIMITED		2,256,19
BARCLAYS CAPITAL NOMINEES LIMITED		405,01
BARCLAYS CAPITAL NOMINEES LIMITED		-136,01
Barclays Noms Monument R97 C 00000000000000000000000000000000000		1,05
Barclays Trust Co & Others		8,07
BNP PARIBAS		166,33
BNY (OCS) NOMINEES LTD	221476	325,60
BOISS NOMINEES LTD	4224361	567,08
CHASE NOMINEES LTD	16376	527,63
CHASE NOMINEES LTD	16530	187,79
CHASE NOMINEES LTD CHASE NOMINEES LTD	16669 18243	134,72 123,82
CHASE NOMINEES LID CHASE NOMINEES LTD	19518	350,11
CHASE NOMINEES LTD	19519	2,662,34
CHASE NOMINEES LTD	20947	36,805,11
CHASE NOMINEES LTD	21359	1,483,19
CHASE NOMINEES LTD	25772	849,76
CHASE NOMINEES LTD	27793	56,30
CHASE NOMINEES LTD	27797	138,56
CHASE NOMINEES LTD	27800	1,037,80
CHASE NOMINEES LTD	28270	307,67
CHASE NOMINEES LTD	28270	908,17
CHASE NOMINEES LTD	31961	1,952,08
CIBC MELLON GLOBAL SECURITIES		107,80
CITIBANK	6010640794	241,02
CITIBANK	6010782807	462,28
DEUTSCHE BANK LONDON	8003168	30,33
Gerrard Nominees Limited	603856	1,20
Gerrard Nominees Limited	642367	13,00
Gerrard Nominees Limited	647291	8,50
Gerrard Nominees Limited	650668	13,00 13,00
Gerrard Nominees Limited Gerrard Nominees Limited	653035 660632	6,00
Gerrard Nominees Limited	660758	35,00
Gerrard Nominees Limited	660851	30,00
Greig Middleton Nominees Limited (GM1)	000031	220,78
Greig Middleton Nominees Limited (GM1)		11,75
HSBC	813168	869,38
HSBC	845315	27 , 19
INVESTORS BANK AND TRUST CO.		5,535,12
INVESTORS BANK AND TRUST CO.		154,75
INVESTORS BANK AND TRUST CO.		22,46
INVESTORS BANK AND TRUST CO.		2,082,28
INVESTORS BANK AND TRUST CO.		582,41
INVESTORS BANK AND TRUST CO.		437,16
INVESTORS BANK AND TRUST CO.		221,43
INVESTORS BANK AND TRUST CO.		54,68
JP MORGAN (BGI CUSTODY)	16331	268,77

JP MORGAN (BGI CUSTODY)		16341	2,160,55
JP MORGAN (BGI CUSTODY)		16341	560 , 58
JP MORGAN (BGI CUSTODY)		16344	687 , 72
JP MORGAN (BGI CUSTODY)		16345	1,158,60
JP MORGAN (BGI CUSTODY)		16400	9,953,38
JP MORGAN (BGI CUSTODY)		16612	342 , 14
JP MORGAN (BGI CUSTODY)		16621	277 , 63
JP MORGAN (BGI CUSTODY)		16644	559 , 64
JP MORGAN (BGI CUSTODY)		16901	167 , 86
JP MORGAN (BGI CUSTODY)		18409	791 , 82
JP MORGAN (BGI CUSTODY)		19514	141 , 75
JP MORGAN (BGI CUSTODY)		28166	2,892,18
JPMORGAN CHASE BANK			346 , 76
JPMorgan Chase Bank			399 , 33
JPMorgan Chase Bank			555 , 31
MELLON BANK		ABGFZ872482	640 , 79
MELLON BANK		TGGF0003002	295 , 96
Mellon Trust - US CUSTODIAN /			264,05
MELLON TRUST OF NEW ENGLAND			283 , 69
MIDLAND BANK (HSBC BANK PLC)		772823	2,901,92
NORTHERN TRUST		CVS21	1,242,43
NORTHERN TRUST		SC006	303 , 97
NORTHERN TRUST		TNF01	532 , 06
NORTHERN TRUST		UKE01	1,049,77
NORTHERN TRUST		USF12	1,681,15
NORTHERN TRUST BANK - BGI SEPA			379 , 98
NORTHERN TRUST BANK - BGI SEPA			92 , 78
NORTHERN TRUST BANK - BGI SEPA			357 , 21
R C Greig Nominees Limited			951 , 44
R C Greig Nominees Limited			367 , 56
R C Greig Nominees Limited a/c AK1			737 , 37
R C Greig Nominees Limited a/c AK1			100,64
R C Greig Nominees Limited a/c BL1			98 , 67
R C Greig Nominees Limited a/c BL1			32 , 93
R C Greig Nominees Limited a/c CM1			6 , 65
R C Greig Nominees Limited a/c CM1			24,64
R C Greig Nominees Limited GP1			51,48
R C Greig Nominees Limited GP1			64 , 58
R C Greig Nominees Limited SA1			31,23
R C Greig Nominees Limited SA1			65 , 68
R C Greig Nominees Limited SA1		WIVE002	1,03
STATE STREET		2RJ2	103 , 73
STATE STREET		JD12	482 , 91
STATE STREET		JFBL	301 , 09
STATE STREET		N3YZ	10 , 87
STATE STREET TRUST OF CANADA -			126,40
The Northern Trust Company - U			177,13
ZEBAN NOMINEES LIMITED			1,00
ZEBAN NOMINEES LIMITED			1,70
	TOTAL		114,823,98
			*

5. Number of shares / amount of stock acquired

NOT KNOWN

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

NOT KNOWN

7. Number of shares / amount of stock disposed

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

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9. Class of security

ORDINARY SHARES OF 3.3333 PENCE EACH

10. Date of transaction

HOLDING AS AT 23 FEBRUARY 2006

- 11. Date company informed
- 27 FEBRUARY 2006
- 12. Total holding following this notification

114,823,988

- 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)
- 11.88%
- 14. Any additional information

SHAREHOLDER PREVIOUSLY REPORTED A SHAREHOLDING OF 127,589,189 (13.21%) ON 20 FEBRUARY 2006.

15. Name of contact and telephone number for queries

MICHAEL ANSCOMBE - 01293 767672

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

MICHAEL ANSCOMBE - ASSISTANT COMPANY SECRETARY

Date of notification

28 FEBRUARY 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.

____LUKE THOMAS_____(Registrant)

Date 28 February 2006

By ___/s/ Luke Thomas____

(Signature) *