SMITH & NEPHEW PLC
Form 6-K
March 13, 2008

FORM 6-K

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

Report of Foreign Private Issuer

Pursuant to Rule 13a-16 or 15d-16
of the Securities Exchange Act of
1934

March 13, 2008

Commission File Number 001-14978

SMITH & NEPHEW plc
(Registrant's name)

15 Adam Street
London, England WC2N 6LA
(Address of registrant's 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
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[Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1).]

Yes No X
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[Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7).]

Yes No X
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[Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing information to the Commission pursuant to Rule 12g3-2 (b) under the Securities Exchange Act of 1934.]

Yes No X
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If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2 (b) : 82- n/a.

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.

Smith & Nephew plc
(Registrant)

Date:March 13, 2008

By: /s/ Paul Chambers
Paul Chambers
Company Secretary

13 March 2008

Transaction in own shares.

Smith & Nephew plc announces that on 13 March 2008 it purchased 150,000 ordinary shares of US$0.20 each at a price of 615.6972 pence per share. The purchased shares will be held as treasury shares.

Following the above purchase, Smith & Nephew plc holds 57,894,483 ordinary shares in treasury, and has 890,319,821 ordinary shares in issue (excluding treasury shares).

Paul Chambers

Company Secretary