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Commission pursuant to Rule 12g3-2 (b) under the Securities Exchange Act of 1934.]

Yes

No

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: August 29, 2008

By: /s/ Paul Chambers

Paul Chambers
Company Secretary

Transaction in own shares.

Smith & Nephew plc announces that on 29 August 2008 it purchased 100,000 ordinary shares of US\$0.20 each at a price of 657.3699 pence per share. The purchased shares will be held as treasury shares.

Following the above purchase, Smith & Nephew plc holds 65,500,683 ordinary shares in treasury, and has 883,957,792 ordinary shares in issue (excluding treasury shares).

Paul Chambers

Company Secretary