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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: August 22, 2008

By: /s/ Paul Chambers  
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Paul Chambers  
Company Secretary

**Transaction in own shares.**

Smith & Nephew plc announces that on 22 August 2008 it purchased 111,200 ordinary shares of US\$0.20 each at a price of 635.8505 pence per share. The purchased shares will be held as treasury shares.

Following the above purchase, Smith & Nephew plc holds 64,925,683 ordinary shares in treasury, and has 884,343,660 ordinary shares in issue (excluding treasury shares).

Paul Chambers  
Company Secretary