SMITH & NEPHEW PLC
Form 6-K
August 11, 2016

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

August 11, 2016

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
--- ---

[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
--- ---

[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
--- ---

[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
--- ---

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2 (b) : 82- n/a.

Smith & Nephew plc (the "Company")

Transaction in Own Shares

11 August 2016

The Company today purchased 300,000 of its Ordinary Shares of US 20¢ each through Merrill Lynch International, in accordance with the authority granted by shareholders at the Company's Annual General Meeting on 14 April 2016. These shares have been purchased as part of the $300 million buy-back programme, the purpose for which is to reduce the Company's share capital, as announced on 8 August 2016. Details of the relevant purchase transactions are set out below:

Description of Shares:	Smith & Nephew Ordinary Shares of US 20¢ each
Number of Shares repurchased:	300,000
Average price paid per Share:	1,277.0546p
Highest price paid per Share:	1,284.0000p
Lowest price paid per Share:	1,269.0000p
Date of transaction:	11 August 2016
Broker:	Merrill Lynch International

The Company intends to hold these shares in Treasury.

Following the purchase of these shares, the Company holds 18,784,911 of its shares in Treasury. The Company's issued share capital, with one voting right per share consists of 894,557,670 Ordinary Shares of US20¢ each (excluding treasury shares). This is the figure which should be used by shareholders as the denominator when determining whether they are required to notify their interest in, or a change to their interest in, the Company under the FCA's Disclosure Guidance and Transparency Rules.
These purchases were made by Merrill Lynch International on behalf of the Company and a full breakdown of the individual trades is attached to this announcement.
http://www.rns-pdf.londonstockexchange.com/rns/9896G_-2016-8-11.pdf

This announcement is made in accordance with the requirements of LR 12.4.6.

Elaine Richardson
Deputy Company Secretary
Smith & Nephew plc
Tel: 01923 477320

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 11, 2016

By: /s/ Susan Swabey

Susan Swabey

Company Secretary