

GLAXOSMITHKLINE PLC

Form 6-K

February 10, 2011

FORM 6-K

SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

Report of Foreign Issuer

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

For period ending February 2011

GlaxoSmithKline plc  
(Name of registrant)

980 Great West Road, Brentford, Middlesex, TW8 9GS  
(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 ☒ Form 40-F

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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 ☒

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GlaxoSmithKline plc (the "Company") announces that in accordance with the authority granted by shareholders at the Company's Annual General Meeting on 6 May 2010 it purchased 1,300,000 of its Ordinary shares of 25 pence each ("shares") on February 10, 2011.

The highest price paid per share was 1179.5 pence per share.

The lowest price paid per share was 1164.0 pence per share.

The Company intends to hold these shares in Treasury.

The Company holds of 476,017,284 its shares in Treasury, representing 8.39% of the total issued share capital of the Company.

Including shares which have been purchased but not yet settled, the Company holds 480,137,284 of its shares in Treasury, representing 9.24% of the total voting rights in the Company.

The Company has 5,194,752,446 shares in issue (excluding shares held in Treasury). This number represents the total voting rights in the Company and may be used by shareholders as the denominator for the calculations by which they can determine if they are required to notify their interest in, or a change to their interest in, the Company under the Financial Services Authority's Disclosure and Transparency Rules.

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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 authorised.

GlaxoSmithKline plc  
(Registrant)

Date: February 10, 2011

By: VICTORIA WHYTE

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Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc