

GLAXOSMITHKLINE PLC  
Form 6-K  
April 16, 2012  
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 April 2012

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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Notification of Transactions of Directors, Persons Discharging Managerial Responsibility or Connected Persons

I give below details of an increase in interests in the Ordinary Shares of GlaxoSmithKline plc in respect of the personal holdings of the under-mentioned persons at a price of 1408.31 pence per Ordinary Share, following the re-investment of the dividend paid to shareholders on 12 April 2012.

Director/PDMR	Number of Shares	Connected Person	Number of Shares
Sir Andrew Witty	1023	Lady Caroline Witty	2509
Dr D Pulman	526	Mrs C R Pulman	107
Mrs V A Whyte	--	Mr I W Whyte	131

The Company and the above named persons were advised of this information on 16 April 2012.

This notification relates to transactions notified in accordance with Disclosure and Transparency Rules 3.1.4R(1)(a) and (c).

V A Whyte  
Company Secretary

16 April 2012

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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: April 16, 2012

By: VICTORIA WHYTE

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Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc