

GLAXOSMITHKLINE PLC  
Form 6-K  
January 17, 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 January 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

--

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

--

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

I give below details of an increase in the holding of Ordinary shares in GlaxoSmithKline plc of the under-mentioned Connected Person following the re-investment of the dividend paid to shareholders on 5 January 2012, and the purchase of shares at a price of 1497.92 pence per share on 6 January 2012.

Director/PDMR Person	Connected Person	Ordinary Shares
----------------------	------------------	-----------------

Dr P J T Vallance	Ms S Dexter	129
-------------------	-------------	-----

The Company and the above named individuals were advised of this transaction on 17 January 2012.

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

V A Whyte  
Company Secretary

17 January 2012

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: January 17, 2012

By: VICTORIA WHYTE

-----

Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc