

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

--

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

The Administrators of the GlaxoSmithKline 2009 Deferred Annual Bonus Plan (the "Plan") notified the Company and the under-mentioned persons on 16 April 2012 of an increase in their notional interests in Ordinary Shares and American Depositary Shares (ADSs) at a price of 1408.5 pence per Ordinary Share and \$44.97 per ADS following the re-investment of dividends paid to shareholders on 12 April 2012.

Sir Andrew Witty	Acquisition of 1099 Ordinary Shares under the personal contribution element of the Plan.  Acquisition of 1099 Ordinary Shares under the matching element of the Plan (Company contribution).
Mr S M Bicknell	Acquisition of 129 Ordinary Shares under the personal contribution element of the Plan.  Acquisition of 129 Ordinary Shares under the matching element of the Plan (Company contribution).
Mrs D P Connelly	Acquisition of 71 ADSs under the personal contribution element of the Plan.  Acquisition of 71 ADSs under the matching element of the Plan (Company contribution).
Mr D S Redfern	Acquisition of 145 Ordinary Shares under the personal contribution element of the Plan.  Acquisition of 145 Ordinary Shares under the matching element of the Plan (Company contribution).
Dr M M Slaoui	Acquisition of 355 ADSs under the personal contribution element of the Plan.  Acquisition of 355 ADSs under the matching element of the Plan (Company contribution).
Ms C Thomas	Acquisition of 32 Ordinary Shares under the personal contribution element of the Plan.  Acquisition of 32 Ordinary Shares under the matching element of the Plan (Company contribution).
Mr D E Troy	Acquisition of 32 Ordinary Shares under the matching element of the Plan (Company contribution).

Acquisition of 178 ADSs under the personal contribution element of the Plan.

Dr P J T Vallance

Acquisition of 178 ADSs under the matching element of the Plan (Company contribution).

Acquisition of 288 Ordinary Shares under the personal contribution element of the Plan.

Acquisition of 288 Ordinary Shares under the matching element of the Plan (Company contribution).

The notional dividends accrued will be paid out in proportion to the percentage of the participant's deferred annual bonus holdings that will vest following the end of the relevant three year measurement period.

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

V A Whyte  
Company Secretary

16 April 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: April 16, 2012

By: VICTORIA WHYTE

-----

Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc