

GLAXOSMITHKLINE PLC  
Form 6-K  
May 11, 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 May 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 changes in the interests of Directors, Persons Discharging Managerial Responsibility or Connected Persons in the Ordinary Shares of GlaxoSmithKline plc in respect of the under-mentioned persons arising from the purchase of Ordinary Shares at a price of 1407.36 pence per Ordinary Share on 10 May 2012 through the Company's ShareReward Plan ("the Plan"):

Sir Andrew Witty	Acquisition of 9 Ordinary Shares under the personal contribution element of the Plan
	Acquisition of 9 Ordinary Shares under the matching element of the Plan (Company contribution)
Mr S Dingemans	Acquisition of 9 Ordinary Shares under the personal contribution element of the Plan
	Acquisition of 9 Ordinary Shares under the matching element of the Plan (Company contribution)
Mr S M Bicknell	Acquisition of 9 Ordinary Shares under the personal contribution element of the Plan
	Acquisition of 9 Ordinary Shares under the matching element of the Plan (Company contribution)
Mr E J Gray	Acquisition of 9 Ordinary Shares under the personal contribution element of the Plan
	Acquisition of 9 Ordinary Shares under the matching element of the Plan (Company contribution)
Mr D S Redfern	Acquisition of 9 Ordinary Shares under the personal contribution element of the Plan
	Acquisition of 9 Ordinary Shares under the matching element of the Plan (Company contribution)
Ms C Thomas	Acquisition of 9 Ordinary Shares under the personal contribution element of the Plan
	Acquisition of 9 Ordinary Shares under the matching element of the Plan (Company contribution)
Mr P C Thomson	Acquisition of 7 Ordinary Shares under the personal contribution element of the Plan

Acquisition of 7 Ordinary Shares under the matching element of the Plan  
(Company contribution)

Dr P J T Vallance

Acquisition of 9 Ordinary Shares under the personal contribution element of  
the Plan

Acquisition of 9 Ordinary Shares under the matching element of the Plan  
(Company contribution)

Mrs V A Whyte

Acquisition of 9 Ordinary Shares under the personal contribution element of  
the Plan

Acquisition of 9 Ordinary Shares under the matching element of the Plan  
(Company contribution)

The Company and the above-mentioned persons were advised of this information on 11 May 2012.

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

V A Whyte  
Company Secretary  
11 May 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: May 11, 2012

By: VICTORIA WHYTE

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Victoria Whyte

Authorised Signatory for and on  
behalf of GlaxoSmithKline plc