

GLAXOSMITHKLINE PLC  
Form 6-K  
January 13, 2010

**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 2010

**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 £12.99 per Ordinary share on 12 January 2010 through the Company's Share Reward Plan ("the Plan"):

Mr A P Witty	Acquisition of 9 Ordinary shares under the partnership element of the Plan (personal contribution)
	Acquisition of 9 Ordinary shares under the matching element of the Plan (Company contribution)
Mr J S Heslop	Acquisition of 9 Ordinary shares under the partnership element of the Plan (personal contribution)
	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 partnership element of the Plan (personal contribution)
	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 partnership element of the Plan (personal contribution)
	Acquisition of 9 Ordinary shares under the matching element of the Plan (Company contribution)
Mr S A Hussain	Acquisition of 9 Ordinary shares under the partnership element of the Plan (personal contribution)
	Acquisition of 9 Ordinary shares under the matching element of the Plan (Company contribution)
Mr D Learmouth	Acquisition of 9 Ordinary shares under the partnership element of the Plan (personal contribution)
	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 partnership element of the Plan (personal contribution)
	Acquisition of 9 Ordinary shares under the matching element of the Plan (Company contribution)
Ms C Thomas	Acquisition of 9 Ordinary shares under the partnership element of the Plan (personal contribution)
	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 13 January 2010.

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

V A Whyte  
Deputy Company Secretary

13 January 2010

**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**

Date: January 13 2010  
VICTORIA WHYTE

(Registrant)  
By:

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Victoria Whyte

Signatory for and on

GlaxoSmithKline plc

Authorised

behalf of