

GLAXOSMITHKLINE PLC  
Form 6-K  
July 12, 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 July 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 x 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

Yes No x

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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 £11.33 per Ordinary share on 9 July 2010 through the Company's Share Reward Plan ("the Plan") which the under-mentioned persons entered on 5 October 2001:

|                   |   |
|-------------------|---|
| Mr A P Witty      | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Mr J S Heslop     | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Mr S M Bicknell   | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Mr E J Gray       | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Mr S A Hussain    | Acquisition of 6 Ordinary shares under the Dividend Reinvestment element of the Plan  |
| Mr D Learmouth    | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Dr D Pulman       | Acquisition of 12 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Mr D S Redfern    | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Ms C Thomas       | Acquisition of 31 Ordinary shares under the Dividend Reinvestment element of the Plan |
| Mr P J T Vallance | Acquisition of 11 Ordinary shares under the Dividend Reinvestment element of the Plan |

The Company and the above-mentioned persons were advised of this information on 12 July 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  
12 July 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**  
(Registrant)

Date: July 12 2010

By: VICTORIA WHYTE

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Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc