

GLAXOSMITHKLINE PLC  
Form 6-K  
December 20, 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 December 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 interests in respect of the under-mentioned Director and Person Discharging Managerial Responsibility:-

Mr E Gray            Following the vesting of 11,321.003 ordinary shares under the GlaxoSmithKline Deferred Investment Award on 18 December 2010, Mr E Gray received a payment of £12.69 per ordinary share on 18 December 2010.

The Company was advised of this transaction on 20 December 2010.

This notifications are in accordance with Disclosure and Transparency Rule 3.1.4R(1)(b).

S M Bicknell  
Company Secretary

20 December 2010

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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: December 20, 2010

By: VICTORIA WHYTE

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Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc