

GLAXOSMITHKLINE PLC  
Form 6-K  
April 21, 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 April 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 an increase in interests in Ordinary shares in GlaxoSmithKline plc purchased at a price of £12.79 per share on 15 April 2010, and Ordinary share ADRs in GlaxoSmithKline plc purchased at a price of \$39.29 per ADR on 8 April 2010, in respect of the personal holdings of the under-mentioned persons following the re-investment of the dividend paid to shareholders on 8 April 2010.

	<b>Ordinary shares</b>	<b>ADRs</b>
Mr A P Witty	280.57	
Mr J S Heslop	346.59	
Dr M M Slaoui		236.43
Mrs C E Bruck Slaoui		4.56
Mr S M Bicknell	14.65	
Mr J M Clarke	254.17	
Mr M Dunoyer	95.73	
Mr E J Gray	19.47	
Mr D Learmouth	70.15	
Mr W C Louv		132.82
Mr D J Phelan		324.57
Dr D Pulman		199.75
Mr D S Redfern	19.47	
Ms C Thomas	14.65	
Mr J R Stéphenne	74.41	

The Company was advised of this information on 21 April 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

21 April 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: April 21, 2010

By: VICTORIA WHYTE

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Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc