

GLAXOSMITHKLINE PLC
Form 6-K
July 25, 2008

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 25, 2008

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

The Administrators of the GlaxoSmithKline Annual Investment Plan notified the Company and Ms Thomas on 25 July 2008 of an increase in her interests in Ordinary shares, purchased at a price of £11.64 per share on 17 July 2008, following the re-investment of the dividend paid to shareholders on 10 July 2008:-

Ms C Thomas 47

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

S M Bicknell

Company Secretary

25 July 2008

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 25, 2008

By: VICTORIA WHYTE

Victoria Whyte

Authorised Signatory for and on
behalf of GlaxoSmithKline plc