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GLAXOSMITHKLINE PLC  
Form 6-K  
March 31, 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 March 31, 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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GlaxoSmithKline plc - Share Buy-Back Programme

GlaxoSmithKline plc (the "Company") announces that it has today put in place an irrevocable, non-discretionary programme for the purchase of its Ordinary shares during the close period which precedes the 2008 first quarter results announcement, expected to be made on 23 April 2008. The shares purchased on

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behalf of the Company are for cancellation.

The aim of the programme is to reduce the issued share capital of the Company to help enhance returns for shareholders.

The share buy-back programme will be managed by an independent third party which makes its trading decisions in relation to the Company's securities independently of, and uninfluenced by, the Company.

Any purchases pursuant to these arrangements will be effected during the period between 1 April 2008 and 23 April 2008 within certain pre-set parameters and in accordance with both the Listing Rules and the limitations of the repurchase authority granted to the Directors at the last Annual General Meeting of shareholders. The Company confirms that it currently has no inside information.

SM Bicknell

Company Secretary

31 March 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: March 31, 2008

By: VICTORIA WHYTE

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Victoria Whyte  
Authorised Signatory for and on  
behalf of GlaxoSmithKline plc