

SIGNET GROUP PLC  
Form 6-K  
February 27, 2007

**FORM 6-K**

**SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**Special Report of Foreign Issuer**

Pursuant to Rule 13a - 16 or 15d - 16 of  
The Securities and Exchange Act of 1934

For the date of February 27, 2007

**SIGNET GROUP plc**  
(Translation of registrant's name into English)

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**15 Golden Square  
London W1F 9JG  
England**  
(Address of principal executive office)

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Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40F.

Form 20-F  Form 40-F

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

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82-

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**Signet Group plc - Buyback of its own Shares**

Signet Group plc ("Signet") announces that it has purchased the following number of its ordinary shares of 0.9 US cents each on the London Stock Exchange from JPMorgan Cazenove Limited.

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Date of purchase: 27 February 2007

Number of ordinary shares purchased: 250,000

Average price paid per share: 116.775p

Following the cancellation of these shares, the remaining number of Ordinary Shares of Signet will be 1,709,263,825.

Enquiries:

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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 authorized.

**SIGNET GROUP plc**

By: /s/ Walker Boyd

Name: Walker Boyd

Title: Group Finance Director

Date: February 27, 2007