

# SECURITIES AND EXCHANGE COMMISSION

## FORM 6-K

Current report of foreign issuer pursuant to Rules 13a-16 and 15d-16 Amendments

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### FILER

#### **BG GROUP PLC**

CIK: **805260** | IRS No.: **060912131** | Fiscal Year End: **1231**  
Type: **6-K** | Act: **34** | File No.: **001-09337** | Film No.: **06511544**  
SIC: **1311** Crude petroleum & natural gas

#### Mailing Address

*100 THAMES VALLEY PARK  
DRIVE  
READING BERKSHIRE  
ENGLAND X0 00000*

#### Business Address

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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 the month of January

BG Group plc  
100 Thames Valley Park Drive  
Reading RG6 1PT  
ENGLAND

(Address of principal executive offices)

The registrant files annual reports under cover of Form 20-F. By furnishing the information contained in this Form the reigistrant is not also furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

BG Group plc announces that on 5th January 2006 it purchased 2,000,000 of its ordinary shares at a price of 598.3552 pence per share. It is intended that these shares will be held in Treasury.

Following the purchase, BG Group plc holds 10,887,000 of its ordinary shares in Treasury and has a total of 3,537,911,218 ordinary shares (excluding shares held in Treasury) in issue.

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.

BG Group plc

Date: 5th January, 2006

By: \_\_\_Ben Mathews\_\_\_

Ben Mathews  
Deputy Company Secretary