

PENGROWTH ENERGY Corp
Form 6-K
March 29, 2012

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 6-K

**Report of Foreign Private Issuer Pursuant to Rule 13a-16 or 15d-16 Under the
Securities Exchange Act of 1934**

March 29, 2012

Commission File Number: 1-31253

PENGROWTH ENERGY CORPORATION

(Exact name of registrant as specified in its charter)

2100, 222 3rd Avenue S.W.

Calgary, Alberta T2P 0B4 Canada
(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 if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

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 Security Exchange Act of 1934.

Yes No

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

The exhibit to this report on Form 6-K shall be incorporated by reference into or as an exhibit to, as applicable, each of the registrant's Registration Statements on Form F-10 and F-3 (File Nos. 333-171682 and 333-171672, respectively) under the Securities Act of 1933, as amended.

DOCUMENTS FILED AS PART OF THIS FORM 6-K

See the Exhibit Index to this Form 6-K

SIGNATURE

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.

PENGROWTH ENERGY CORPORATION

March 29, 2012

By: /s/ Andrew D. Grasby
Name: Andrew D. Grasby
Title: Senior Vice President,
General Counsel & Corporate Secretary

EXHIBIT INDEX

Exhibit No.

99.1 Notice of Annual Meeting of Shareholders and Management Information Circular dated March 26, 2012.