

Gerlich Michael A
Form 4
March 31, 2010

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
Gerlich Michael A

2. Issuer Name and Ticker or Trading Symbol
GASTAR EXPLORATION LTD [GST]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
1331 LAMAR, SUITE 1080
(Street)

3. Date of Earliest Transaction (Month/Day/Year)
03/26/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
Chief Financial Officer & VP

HOUSTON, TX 77010

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) | |
|--|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|---|
| | | | Code | V | Amount | (A) or (D) | Price | |
| Bonus Stock Award (restricted share grant) | 03/26/2010 | | A | | 87,500 (1) | A | \$ 4.98 302,989 | D |
| Restricted Shares | 03/31/2010 | | F(2) | | 816 | D | \$ 4.96 302,173 | D |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form

SEC 1474 (9-02)

