Gastar Exploration Inc.

Form 4

March 16, 2015

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Washington, D.C. 20549

Check this box if no longer subject to Section 16.

SECURITIES Form 4 or Form 5 obligations

may continue. See Instruction 1(b).

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)

(Last)

Common

Stock

1. Name and Address of Reporting Person *

PENNER ROBERT DAVID

(First) (Middle)

1331 LAMAR ST., SUITE 650

(Street)

HOUSTON, TX 77010

2. Issuer Name and Ticker or Trading Symbol

Gastar Exploration Inc. [GST]

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

03/15/2015

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

5. Relationship of Reporting Person(s) to Issuer

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

(Check all applicable)

X Director 10% Owner Officer (give title Other (specify

6. Individual or Joint/Group Filing(Check

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

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

below)

(City) (State)

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) any

03/15/2015

(Zip)

(Month/Day/Year)

Transaction(A) or Disposed of Code (D) (Instr. 8) (Instr. 3, 4 and 5)

(A)

Transaction(s) (Instr. 3 and 4) Amount (D) Price

Code V F 900 (1) D

4. Securities Acquired 5. Amount of Securities Beneficially Owned Following Reported

(D) or Indirect (I) (Instr. 4)

6. Ownership 7. Nature of Form: Direct Indirect Beneficial Ownership (Instr. 4)

(9-02)

207,874 (2) D

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

Persons who respond to the collection of SEC 1474 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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	1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exercis Expiration Date		7. Title and Amount of	8. Price of	9. Nu
Derivative Security (Instr. 3)		Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	execution Date, if any (Month/Day/Year)	Transacti Code (Instr. 8)	orNumber of Derivativ Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)		Underlying Securities (Instr. 3 and 4)	Derivative Security (Instr. 5)	Deriv Secur Bene Own Follo Repo Trans (Instr
					Code V	ĺ		Expiration Date	Title Amour or Numbe of Shares	er	

Reporting Owners

Relationships Reporting Owner Name / Address

Director 10% Owner Officer Other

PENNER ROBERT DAVID 1331 LAMAR ST. **SUITE 650** HOUSTON, TX 77010

Signatures

/s/ Robert D. Penner, by Michael A. Gerlich as Attorney in 03/16/2015 Fact

X

**Signature of Reporting Person

Date

Explanation of Responses:

- If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Shares forfeited to meet tax obligation of restricted share vesting.
- Includes 83,380 shares acquired on various dates pursuant to previously reported restricted share grants that will vest subject to previously disclosed vesting schedules.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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