Gastar Exploration Inc.

Check this box

if no longer

subject to

Section 16.

Form 4 or

Form 4

March 27, 2014

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading PENNER ROBERT DAVID Issuer Symbol Gastar Exploration Inc. [GST] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) _X__ Director 10% Owner _ Other (specify Officer (give title 1331 LAMAR ST., SUITE 650 03/26/2014 below) (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting HOUSTON, TX 77010 Person

(City)	(State) (Z	Table	I - Non-De	rivative S	ecurit	ies Acq	uired, Disposed	of, or Beneficial	ly Owned
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securi	ties		5. Amount of	6. Ownership	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	onAcquired	d (A) c	or	Securities	Form: Direct	Indirect
(Instr. 3)		any	Code	Disposed of (D)			Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3,	4 and	5)	Owned	Indirect (I)	Ownership
							Following	(Instr. 4)	(Instr. 4)
					(4)		Reported		
					(A)		Transaction(s)		
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Restricted Shares	03/26/2014		F(1)	750	D	\$ 5.5	175,123	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 (9-02)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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burden hours per

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

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1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4. Transacti	5.	6. Date Exerc Expiration Da		7. Title and Amount of	8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(i.i.dia. Dayi Teal)	any (Month/Day/Year)	Code (Instr. 8)	of			Underlying Securities (Instr. 3 and 4	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title Amoun or Numbe of Shares		

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

PENNER ROBERT DAVID
1331 LAMAR ST.
SUITE 650

Signatures

HOUSTON, TX 77010

/s/ Michael A. Gerlich, as Attorney in Fact 03/27/2014

**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.

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.

Reporting Owners 2