Gastar Exploration Inc.

Form 4

March 31, 2015

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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Expires:

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Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue.

See Instruction

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

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 Porter J Russell Issuer Symbol Gastar Exploration Inc. [GST] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) _X_ Director 10% Owner X_ Officer (give title _ Other (specify 1331 LAMAR STREET, SUITE 650 03/31/2015 below) Chief Executive Officer & Pres (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) (Zip) Table	e I - Non-D	erivative S	ecurit	ties Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			of (D)	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	03/31/2015		S	50,000	D	2.64 (1)	1,883,525 (2)	D	
Common Stock							150,000	I	Trust (3)

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

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Titl	le and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	ınt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	rlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)	Bene
	Derivative				Securities Acquired			(Instr.	3 and 4)		Own
	Security										Follo
	·				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration	m: .1	or		
						Exercisable	Date	(Number		
				~					of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Other Director 10% Owner Officer

Porter J Russell

1331 LAMAR STREET, SUITE 650 X Chief Executive Officer & Pres

HOUSTON, TX 77010

Signatures

/s/ J. Russell Porter, by Michael A. Gerlich as Attorney in Fact

03/31/2015

Relationships

**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).
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$2.59 to \$2.68, inclusive. The reporting person undertakes to provide to Gastar Exploration Inc., any security holder of Gastar Exploration Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth above.
- Includes 525,684 shares acquired on various dates pursuant to previously reported restricted share grants that will vest subject to previously disclosed vesting schedules.
 - On July 10, 2014, the reporting person gifted 150,000 shares to his children in trusts for which the reporting person acts as the trustee as follows: The James Breckenridge Porter Trust of 2014 - 37,500 shares, The Grant Anderson Porter Trust of 2014 - 37,500 shares, The
- Addison Ann Porter Trust of 2014 37,500 shares and The Lily Madeline Porter Trust of 2014 37,500 shares. The reporting person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein, and the inclusion of these shares in this report shall not be deemed an admission of beneficial ownership of all of the reported shares for the purposes of Section 16 or for any

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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