Form 8-K May 11, 2016	Inc.					
·						
UNITED STATES						
SECURITIES AND	EXCHANGE COMMISSION	ON				
Washington, D.C. 2	0549					
FORM 8-K						
CURRENT REPOR	T					
PURSUANT TO SE	ECTION 13 OR 15(D) OF T	HE				
SECURITIES EXCHANGE ACT OF 1934						
Date of Report (Date of earliest event reported): May 11, 2016 (May 11, 2016)						
GASTAR EXPLOR						
(Exact Name of Registrant as Specified in its Charter)						
	DELAWARE (State or other jurisdiction of incorporation)	001-35211 (Commission File Number)	38-3531640 (IRS Employer Identification No.)			

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1331 LAMAR STREET, SUITE 650 HOUSTON, TEXAS 77010 (Address of principal executive offices)

(713) 739-1800

(Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

]]	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
[]	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
[]	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
[]	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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SECTION 8 - OTHER EVENTS

Item 8.01 Other Events.

On May 11, 2016, Gastar Exploration Inc. (the "Company") issued a press release announcing its intent to offer, subject to market and other conditions, 40,000,000 shares of its common stock, par value \$0.001 per share, in an underwritten public offering pursuant to an effective shelf registration statement previously filed with the Securities and Exchange Commission and effective as of February 24, 2014. In connection with the offering, the Company intends to grant the underwriters a 30-day option to purchase up to an additional 6,000,000 shares of common stock. A copy of the Company's press release, dated May 11, 2016, is furnished herewith as Exhibit 99.1 and is incorporated herein by reference.

SECTION 0	EINIANCIAI	STATEMENTS	AND	EVHIDITO
SECTION 3 -	·FINANCIAL	SIAIEWENIS	AND	CARIDILO

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following is a list of exhibits filed as part of this Form 8-K:

Exhibit No. Description of Document 99.1 Press release dated May 11, 2016.

SIGNATURES

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 hereunto duly authorized.

GASTAR EXPLORATION

Date: May 11, 2016 INC.

/s/ J. Russell By:Porter J. Russell Porter President and Chief Executive Officer

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EXHIBIT INDEX

Exhibit No. Description of Document

99.1 Press release dated May 11, 2016.