

PAA NATURAL GAS STORAGE LP  
Form 8-A12B  
April 27, 2010

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 8-A  
FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) OR 12(g) OF THE  
SECURITIES EXCHANGE ACT OF 1934  
PAA NATURAL GAS STORAGE, L.P.  
(Exact Name of Registrant as Specified in its Charter)**

**Delaware** **27-1679071**  
(State of incorporation or organization) (IRS Employer Identification No.)  
**333 Clay Street, Suite 1500**  
**Houston, Texas 77002**  
(Address of principal executive offices and zip code)  
Securities to be registered pursuant to Section 12(b) of the Act:

**Title of each class  
to be so registered**

**Name of each exchange on which  
each class is to be registered**

Common Units Representing Limited Partner Interests

The New York Stock Exchange

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A(d), check the following box.

Securities Act registration statement file number to which this form relates: 333-164492

Securities to be registered pursuant to Section 12(g) of the Act: None.

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## INFORMATION REQUIRED IN REGISTRATION STATEMENT

### Item 1. Description of Registrant's Securities to be Registered.

A description of the common units representing limited partner interests in PAA Natural Gas Storage, L.P. (the Registrant) is set forth under the captions Summary The Offering, Our Cash Distribution Policy and Restrictions on Distributions, Provisions of Our Partnership Agreement Relating to Cash Distributions, Description of the Common Units, The Partnership Agreement, Units Eligible for Future Sale and Material Income Tax Consequences in the prospectus included in the Registrant's Registration Statement on Form S-1, as amended (Registration No. 333-164492), initially filed with the Securities and Exchange Commission on January 25, 2010 under the Securities Act of 1933, as amended, and will be set forth in any prospectus filed by the Registrant in accordance with Rule 424(b) thereunder, which description included therein is incorporated herein by reference.

### Item 2. Exhibits.

The following exhibits to this Registration Statement on Form 8-A are incorporated by reference from the documents specified, which have been filed with the Securities and Exchange Commission.

Exhibit No.	Description
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| 1. | Registrant's Registration Statement on Form S-1, as amended (Registration No. 333-164492), filed with the Securities and Exchange Commission on January 25, 2010 (incorporated herein by reference).  |
| 2. | Certificate of Limited Partnership of the Registrant (incorporated herein by reference to Exhibit 3.1 to the Registrant's Registration Statement on Form S-1, as amended (Registration No. 333-164492), filed with the Securities and Exchange Commission on January 25, 2010).   |
| 3. | Form of Amended and Restated Limited Partnership Agreement of the Registrant (incorporated herein by reference to Appendix A to the prospectus included in Amendment No. 4 to the Registrant's Registration Statement on Form S-1, as amended (Registration No. 333-164492), filed with the Securities and Exchange Commission on April 22, 2010).  |
| 4. | Form of Specimen Unit Certificate for the Common Units (included as Exhibit A-1 to the First Amended and Restated Agreement of Limited Partnership of the Registrant) (incorporated herein by reference to Appendix A to the prospectus included in Amendment No. 4 to the Registrant's Registration Statement on Form S-1, as amended (Registration No. 333-164492), filed with the Securities and Exchange Commission on April 22, 2010). |
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**SIGNATURE**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

**PAA Natural Gas Storage, L.P.**

**By: PNGS GP LLC, its general partner**

By: /s/ Al Swanson

Name: Al Swanson

Title: Senior Vice President, Chief Financial Officer and  
Director

Dated: April 27, 2010

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## INDEX TO EXHIBITS

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