ARMSTRONG GREG L

Form 4

August 16, 2005

FORM 4

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

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

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * ARMSTRONG GREG L

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

PLAINS ALL AMERICAN PIPELINE LP [PAA]

(Check all applicable)

(Last) (First) (Middle)

(Street)

(State)

3. Date of Earliest Transaction

_X__ Director X_ Officer (give title

10% Owner Other (specify

(Zip)

(Month/Day/Year) 08/12/2005

below) below) Chairman of the Board & CEO

333 CLAY STREET, # 1600

Applicable Line)

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

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Person

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

HOUSTON, TX 77002

(City)

(Instr. 3)

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

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

5. Amount of Securities Beneficially Owned Following

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

(A)

Reported Transaction(s)

(Instr. 3 and 4) Code V Amount (D) Price

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 3. Transaction Date 3A. Deemed 4. 5. Number of 6. Date Exercisable and Derivative Conversion (Month/Day/Year) Execution Date, if **Transaction**Derivative **Expiration Date** Security or Exercise Code Securities (Month/Day/Year) any

(Instr. 3 and 4)

7. Title and Amoun

Underlying Securiti

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(Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (A)
Derivative or Disposed of Security (D)
(Instr. 3, 4, and 5)

(A) (D) Date Expiration

Exercisable Date

Title Amor

Numl of Sh

18,7

Performance Options A 18,750 08/12/2005 12/31/2005 Common Units

Code V

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

ARMSTRONG GREG L 333 CLAY STREET, # 1600

X Chairman of the Board & CEO

HOUSTON, TX 77002

Signatures

Greg L.

Armstrong 08/15/2005

**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) Strike price for each unit equals \$22 less 80% of each per unit distribution after, and including the distribution on, August 14, 2001
- (2) N/A

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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