

Temple Chris  
Form 4  
August 31, 2009

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

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. Name and Address of Reporting Person \*  
Temple Chris

2. Issuer Name and Ticker or Trading Symbol  
PLAINS ALL AMERICAN PIPELINE LP [PAA]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
505 FIFTH AVENUE S, SUITE 900  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
08/27/2009

Director  10% Owner  
 Officer (give title below)  Other (specify below)

SEATTLE, WA 98104

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 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   |
| Common Units                    | 08/27/2009                           |  | J <sup>(1)</sup>               |   | 1,907,305 <sup>(1)</sup>  | A  | \$ 47.19 <sup>(1)</sup>                               |
|                                 |                                      |  |                                |   | 16,293,379 <sup>(2)</sup>   | I  |   |

Through corporation and by managed LLCs <sup>(2)</sup> <sup>(3)</sup>

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

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SEC 1474 (9-02)

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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 Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|

**Reporting Owners**

| Reporting Owner Name / Address                                       | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| Temple Chris<br>505 FIFTH AVENUE S<br>SUITE 900<br>SEATTLE, WA 98104 | X             |           |         |       |

**Signatures**

/s/ Chris Temple                      08/28/2009  
 \_\_Signature of                      Date  
 Reporting Person

**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) On August 27, 2009, Vulcan Gas Storage, LLC ("Vulcan Gas Storage") became entitled to purchase 1,907,305 Common Units of the Issuer pursuant to the terms of the Membership Interest Purchase Agreement, dated as of August 27, 2009, between Vulcan Gas Storage, the Issuer and a subsidiary of the Issuer.
- (2) 1,995,954 Common Units of the Issuer are owned by Vulcan Capital Private Equity I LLC ("Vulcan Capital"). 12,390,120 Common Units of the Issuer are owned by Vulcan Energy Corporation ("Vulcan Energy"). 1,907,305 Common Units of the Issuer are owned by Vulcan Gas Storage. The Reporting Person may receive performance-based compensation based on the performance of the holdings of Vulcan Gas Storage, Vulcan Energy and Vulcan Capital, including the Common Units held by these entities. As a result, the Reporting Person may be deemed to have a pecuniary interest in the Common Units held by Vulcan Gas Storage, Vulcan Energy and Vulcan Capital.
- (3) The Reporting Person disclaims beneficial ownership of the reported securities, except to the extent of his pecuniary interest therein.

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.