

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>PETERSEN GARY R</u>  (Last) (First) (Middle) <u>1100 LOUISIANA, # 3150</u>  (Street) <u>HOUSTON TX 77002</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>PLAINS ALL AMERICAN PIPELINE LP</u> [ PAA ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>12/10/2009</u>	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

**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	12/10/2009		P		1,070,663 <sup>(1)</sup>	A	\$51.15	1,689,559	I	Through Partnership <sup>(2)</sup>
Common Units	12/10/2009		S		1,361,359 <sup>(3)</sup>	D	\$49.3 <sup>(4)</sup>	328,200	I	Through Partnership <sup>(2)</sup>
Common Units								5,200	D	

**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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date					

**Explanation of Responses:**

- Pursuant to that certain Purchase Agreement dated October 29, 2009, on December 10, 2009 (the "Purchase Agreement"), E-Holdings III, L.P. ("E-Holdings III") and E-Holdings V, L.P. ("E-Holdings V", and together with E-Holdings III, "E-Holdings") acquired an aggregate amount of 1,070,663 common units representing limited partnership interests (the "Purchase Transaction") in Plains All American Pipeline, L.P. (the "Issuer"). The securities acquired by E-Holdings in the Purchase Transaction were unrestricted securities.
- Mr. Petersen is a principal of EnCap Investments, L.P., an affiliate of E-Holdings III and E-Holdings V, which own the common units. The reporting person disclaims any beneficial ownership of the common units exceeding his pecuniary interest.
- On December 10, 2009, the common units were sold by E-Holdings in a single block trade.
- Pursuant to the Purchase Agreement, based on post-closing adjustments, E-Holdings received an additional payment of approximately \$590,000.

**Remarks:**

Gary R. Petersen 12/14/2009  
 \*\* Signature of Reporting Person Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.