FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

ATEMENT OF	CHANGES I	N RENEFICIAL	OWNERSHIP

Ш	OMB APPRO	JVAL
	OMB Number:	3235-0287
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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).

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

1. Name and Address of Reporting Person* ARMSTRONG GREG L				PI	2. Issuer Name and Ticker or Trading Symbol PLAINS ALL AMERICAN PIPELINE LP PAA									ck all applic Directo	able) r	g Pers	on(s) to Issu 10% Ow	ner	
(Last) 333 CLA	(Fi	,	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 05/15/2012 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual Line) X Fo								X	below)	Officer (give title below) Chairman of the Bo			pecify
(Street) HOUST(77002 (Zip)		4. 1									Form fi	r Joint/Group Filing (Check Applicable n filed by One Reporting Person n filed by More than One Reporting on				
		Tab	le I - Noi	n-Deriv	/ativ	e Se	curit	ies Ac	quired	, Dis	posed c	of, or B	enefi	cially	Owned				
		2. Trans Date (Month/	/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr. 5)				Securitie Beneficia Owned F	5. Amount of Securities Beneficially Owned Following		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount	(A) (D)	or Pi	ice	Reported Transact (Instr. 3 a	ion(s)			(Instr. 4)
Common Units			05/1	05/15/2012				М		60,00	0 A		(1)	560,010 538,140		D D			
Common	Units		05/15/2012					F	21,		70 D		\$ <mark>0</mark>						
		7	Гable II -								osed of, onverti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/	Date, Transacti Code (Ins					6. Date Exercisable Expiration Date (Month/Day/Year)		e	le and 7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amo or Num of Shai	ber					
Phantom Units- 2005 LTIP	(1)	05/15/2012			М			60,000	05/15/20)12	(2)	Common Units	60,0	000	\$0	0		D	

Explanation of Responses:

- 1. 1-for-1 Common Units for Phantom Units granted under long-term incentive plan.
- 2. N/A

Remarks:

/s/ Greg L. Armstrong

05/15/2012

** 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.