Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person* Lang Paul A						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								eck all applic	,		on(s) to Iss 10% Ov Other (s	vner
	(First) (Middle) CITY PLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/23/2012								X Officer (give title below) Other (specify below) Senior VP - Operations				
(Street)	(Street) ST. LOUIS MO 63141			4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	tate)	(Zip)															
		Tab	le I - Non	-Deriv	ative	e Se	curities	s Ac	quired, Di	isp	osed o	f, or Bei	neficiall	y Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				Execution Date,		e, Transaction Disposed Code (Instr. 5)		ties Acquire I Of (D) (Ins			es Fo ally (D) Following (I)		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership				
						Code V		Amount	(A) or (D)	Price	Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)			
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		3A. Deemed Execution I if any (Month/Day	Date,	4. Transaction Code (Instr. 8)				6. Date Exercisable an Expiration Date (Month/Day/Year)			7. Title and of Securiti Underlying Derivative (Instr. 3 and	es g Security	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)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable	Ex Da	opiration	Title	Amount or Number of Shares					
Employee Stock Options	\$13.93	02/23/2012			A		83,300		(1)	02	2/23/2022	Common Stock	83,300	\$0.00	83,300		D	
Restricted Stock Units	\$13.93	02/23/2012			A		33,000		(2)		(3)	Common Stock	33,000	\$0.00	33,000)	D	

Explanation of Responses:

- 1. The options vest ratably over 3 years as follows: 27,767 shares vest on February 23, 2013; 27,767 shares vest on February 23, 2014; and 27,766 shares vest on February 23, 2015.
- 2. The reporting person received 33,000 restricted stock units on February 23, 2012. The restricted stock units vest on February 23, 2015.
- 3. The restricted stock units do not expire.

Remarks:

/s/ Jon S. Ploetz, Attorney-in-

02/27/2012

** 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.