FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, B.O. 20040

OMB APPROVAL											
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Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* JONES ROBERT G					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									c all applic Directo	cable) r	g Pers	10% Ov	ner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 02/23/2012									Officer (give title below) Sr. VP-Law, G		Other (below) en Counsel & S		
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)					4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(5			-Deriv	/ativ	- Se	curities	<u></u>	auired D	ier	nsed o	of or Re	neficia	ally	Owned				
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/D					action	ear)	2A. Deeme Execution if any	A. Deemed execution Date,		on str.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)		ed (A) or	_	5. Amount of Securities Beneficially Owned Following		Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code V	,	Amount	(A) o (D)	r Price	,	Transact	Reported Transaction(s) (Instr. 3 and 4)				
			Table II - E						uired, Dis , options						wned		,		Δ.
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day)	ate, T	4. Transaction Code (Instr. 8)				6. Date Exercisa Expiration Date (Month/Day/Year			7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)		D	. Price of erivative ecurity nstr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amour or Number of Shares	r					
Employee Stock Options	\$13.93	02/23/2012			A		55,300		(1)	02	2/23/2022	Common Stock	55,30	0	\$0.00	55,30	0	D	
Restricted Stock Units	\$13.93	02/23/2012			A		21,900		(2)		(3)	Common Stock	21,90	0	\$0.00	21,90	0	D	

Explanation of Responses:

- 1. The options vest ratably over 3 years as follows: 18,434 shares vest on February 23, 2013; 18,433 shares vest on February 23, 2014; and 18,433 shares vest on February 23, 2015.
- 2. The reporting person received 21,900 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-Fact 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.