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

1. Name and Address of Reporting Person* JONES ROBERT G					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]											5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 03/15/2012											Officer (give tit below) Sr. VP-Law, (Other (sp below) en Counsel & Sec				
(Street) ST. LOU (City)			63141 (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)	(3		le I - Nor	n-Deriv	ative	e Se	curi	ties Ac	aui	ired. I	— Dist	osed o	f. or	Ben	eficial	v Own	ed					
1. Title of Security (Instr. 3)			2. Trans Date	Transaction		2A. Deemed Execution Date, if any (Month/Day/Year)		<u>, </u>	3. Transactio Code (Insti		4. Securi	ities Acquired (A) od Of (D) (Instr. 3, 4		d (A) or	or 5. Amo Securi Benefi Owned			Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
										Code	v	Amount		(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)					(Instr. 4)	
Common Stock				03/15	15/2012					M ⁽¹⁾		58,40	0	A	\$11.	3	76,337			D		
Common Stock			03/15	5/2012					S ⁽¹⁾		58,400		D	\$11.	В	17,937			D			
Common Stock															4,731		31		I	by 401(k) plan		
		-	Fable II - I									sed of, onvertil				Owne	d	,		,		
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/Yea	Date, T	4. Transaction Code (Instr				Exp	Date Exe piration onth/Day	Date	of Securities		es Security	8. Price Derivati Securiti (Instr. 5	ve d	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Own For Dire or I (I) (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				C	Code	v	(A)	(D)	Dat Exe	te ercisabl		xpiration ate	Title		Amount or Number of Shares							
Employee Stock Options (right to	\$11.3	03/15/2012		1	M ⁽¹⁾			58,400		(2)	0	4/25/2012	Comi		58,400	\$0.00		0		D		

Explanation of Responses:

- 1. The transactions reported were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- 2. The reporting person received 58,400 stock options on April 25, 2002. The stock options vested as follows: 14,600 stock options vested on April 25, 2003; 14,600 stock options vested on April 25, 2004; 14,600 stock options vested on April 25, 2005; and 14,600 stock options vested on April 25, 2006.

Remarks:

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

03/15/2012

Fact

** 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.