FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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*  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					vner
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 02/21/2008								X	Officer (give title below)  VP-Law, Gen		Cour	Other (s below) usel & Sec	`
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)						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					
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					action	ction 2A. Deemed Execution Date,			Transaction Disposed Code (Instr. 5)			ties Acquire d Of (D) (Ins	r 5. Amou Securitie Benefici		nt of s ally ollowing	Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										<i>'</i>	Amount	(A) or (D)			Transact (Instr. 3 a	action(s) 3 and 4)			(
		•	Fable II - D (e						uired, Dis , options	•	,			•	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Dat if any (Month/Day/Yo	Date, Transa Code (			of I		6. Date Exercisa Expiration Date (Month/Day/Yea		of Securiti		ies g Security		d. Price of Derivative Security Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e C s F llly C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amou or Numb of Share	er					
Employee Stock Options (right to	\$52.69	02/21/2008			A		34,700		(1)	0	2/21/2018	Common Stock	34,7	00	\$0.00	34,70	0	D	

## **Explanation of Responses:**

1. The option vests in three equal annual installments beginning on February 21, 2009.

## Remarks:

/s/ Gregory A. Billhartz, 02/25/2008 Attorney-in-Fact

\*\* Signature of Reporting Person

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.