FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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 Officer (give title Other (specify				
(Last) (First) (Middle) ONE CITYPLACE DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 02/25/2008											below	below) VP-Law, Gen. (below)	
(Street) ST. LOUIS MO 63141					4. If	Line) X Form filed by 0									filed by On	roup Filing (Check Applicable One Reporting Person More than One Reporting				
(City)	(Si	•	(Zip)	. Doriv	otivo		ourit	ioo A		uirad [of or	Por	noficial					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/D					action	·	2A. Deemed Execution Date, if any (Month/Day/Year)			3. 4. S Transaction Dis Code (Instr. 5)			ecurities Acquired (A) or posed Of (D) (Instr. 3, 4 ar			5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
										Code	v	Amount	t (4	A) or D)	Price	Reporte Transa (Instr. 3	ction(s)			(Instr. 4)
Common Stock 02/25.					5/200	2008			М		866	5	A	(1)	10,171		D			
Common Stock 02/25					5/200	/2008				М		1,40	00	A	(2)	11	,571		D	
Common Stock															4	4,426		I	By 401(k) plan	
		7	able II -	Derivat (e.g., p												Owned		•	,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	4. Transactio Code (Instr 8)					Date Exe xpiration I lonth/Day	Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Ily	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)		ate kercisable		opiration	Title		Amount or Number of Shares					
Restricted Stock Units	(3)	02/25/2008			М			866		(4)		(5)	Comm		866	(1)	866		D	
Restricted Stock Units	(3)	02/25/2008			М			1,400		(6)		(5)	Comm		1,400	(2)	1,398	3	D	

Explanation of Responses:

- 1. The reporting person received 2,600 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. Upon vesting of 866 restricted stock units on January 25, 2008, the reporting person received 866 shares of common stock.
- 2. The reporting person received 5,600 restricted stock units on February 24, 2005. The restricted stock units vest ratably over a three-year period. Upon vesting of 1,866 restricted stock units on February 25, 2008, the reporting person received 1,400 shares of common stock and deferred receipt of 466 shares of common stock pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 3. Each restricted stock unit represents a right to receive one share of common stock unless otherwise deferred, at the reporting person's election, pursuant to the Arch Coal, Inc. Executive Deferred Compensation Plan.
- 4. The reporting person received 2,600 restricted stock units on February 23, 2006. The restricted stock units vest ratably over a three-year period. On February 25, 2008, 866 restricted stock units vested.
- 5. The restricted stock units do not expire.
- 6. The reporting person received 5,600 restricted stock units on February 24, 2005. The restricted stock units vest ratably over a three-year period. On February 25, 2008, 1,866 restricted stock units vested.

Remarks:

/s/ Gregory A. Billhartz, Attorney-in-Fact ** Signature of Reporting Person

02/27/2008

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.