## SEC Form 4

 $\Box$ 

# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
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

OMB Number:	3235-0287								
stimated average	urden								

OMB Number:	3235-0287
Estimated average burd	den
hours per response:	0.5

1. Name and Address of Reporting Person <sup>*</sup> JONES ROBERT G			2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]		tionship of Reporting Person(s) to Issuer all applicable) Director 10% Owner		
(Last) (First) (Middle) ONE CITYPLACE DRIVE		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/06/2008	Х	Officer (give title below) VP-Law, Gen. Couns	Other (specify below) el & Secy	
(Street) ST. LOUIS	МО	63141	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line) X	dual or Joint/Group Filing ( Form filed by One Report Form filed by More than (	ting Person	
(City)	(State)	(Zip)			Person	ene repetiting	

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(
Common Stock	05/06/2008		М		25,800	A	\$10.98	37,371	D	
Common Stock	05/06/2008		М		9,500	A	\$4.25	46,871	D	
Common Stock	05/06/2008		S		900	D	\$62.77	45,971	D	
Common Stock	05/06/2008		S		9,100	D	\$62.76	36,871	D	
Common Stock	05/06/2008		S		10,000	D	\$62.8	26,871	D	
Common Stock	05/06/2008		S		1,200	D	\$62.685	25,671	D	
Common Stock	05/06/2008		S		5,000	D	\$62.69	20,671	D	
Common Stock	05/06/2008		S		3,600	D	\$62.67	17,071	D	
Common Stock	05/06/2008		S		100	D	\$62.66	16,971	D	
Common Stock	05/06/2008		S		5,400	D	\$62.65	11,571	D	
Common Stock								4,433	I	By 401(k) Plan

		-	Table II - Deriv (e.g.,					uired, Dis 5, options,				Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Date Execution Date, Transaction of		vative urities uired or oosed O) (Instr.	Expiration Date ( (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Employee Stock Options (right to buy)	\$4.25	05/06/2008		М			9,500	(1)	02/24/2010	Common Stock	9,500	\$0.00	0	D	
Employee Stock Options (right to buy)	\$10.98	05/06/2008		м			25,800	(2)	02/22/2011	Common Stock	25,800	\$0.00	0	D	

Explanation of Responses:

1. The reporting person received 26,500 stock options on February 24, 2000. The stock options vested ratably over a three year period as follows: 8,834 stock options vested on February 24, 2001; 8,833 stock options vested on February 24, 2002; and 8,833 stock options vested on February 24, 2003.

2. The reporting person received 25,800 stock options on February 22, 2001. The stock options vested ratably over a three year period as follows: 8,600 stock options vested on February 22, 2002; 8,600 stock options vested on February 22, 2003; and 8,600 stock options vested on February 22, 2004.

**Remarks:** 

# <u>/s/ Gregory A. Billhartz,</u> <u>Attorney-in-Fact</u>

05/07/2008

\*\* 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.