SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Oberely this have if we have seen such:	4 4 -
Check this box if no longer subj	ect 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 AF	PROVAL
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1 I. Marile and Address of Reporting Leson			2. Issuer Name and Ticker or Trading Symbol <u>ARCH COAL INC</u> [ACI]	(Check	tionship of Reporting Pe all applicable) Director	10% Owner
(Last) ONECITYPL	(First) (Middle)		3. Date of Earliest Transaction (Month/Day/Year) 03/28/2012	X	Officer (give title below) VP - Human R	Other (specify below) esources
(Street) ST. LOUIS	МО	63141	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line) X	idual or Joint/Group Filir Form filed by One Rep	
, (City)	(State)	(Zip)	-		Form filed by More that Person	an One Reporting
		Table I - Non-Deriv	vative Securities Acquired, Disposed of, or Benef	icially (Owned	

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. Transaction Code (Instr. 8)					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	03/28/2012		М		9,334	A	\$8.72	18,002	D	
Common Stock	03/28/2012		S		9,334	D	\$10.71	8,668	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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/Year)	4. Transa Code (8)		of Deri Sec Acq (A) (Disp of (I	oosed D) tr. 3, 4	Expiration Date (Month/Day/Year)		Expiration Date Amount of (Month/Day/Year) Securities Underlying Derivative Se		Amount of Derivative Securities Security		derivative Securities Beneficially Owned	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	4				
Employee Stock Options (right to buy)	\$8.72	03/28/2012		М			9,334	(1)	02/03/2013	Common Stock	9,334	\$0.00	0	D		

Explanation of Responses:

1. The reporting person received 60,000 stock options on February 3, 2003. The stock options vested ratably over a three-year period as follows: 20,000 stock options vested on February 3, 2004; 20,000 stock options vested on February 3, 2005; 20,000 stock options vested on February 3, 2006.

Remarks:

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

03/29/2012

** 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.