SEC Form 4	
------------	--

## 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 APPROVAL
OMB Number: 3235-0287
Estimated average burden
hours per response: 0.5

1. Name and Add Slone Deck	ress of Reporting Per	rson*	2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]		tionship of Reporting Pe all applicable) Director	rson(s) to Issuer 10% Owner
(Last) ONE CITYPL SUITE 300	(First) ACE DRIVE	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/28/2013	X	Officer (give title below) Sr. VP - Strategy &	Other (specify below) & Public Pol
(Street) ST. LOUIS	МО	63141	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filir Form filed by One Rep Form filed by More that Person	porting Person
(City)	(State)	(Zip)				

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

- Ja											
	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)		(Instr. 4)

 
 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)		5. Numb of Derivati Securiti Acquire (A) or Dispose of (D) (II 3, 4 and	ve es d ed nstr.	6. Date Exercisable and 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	\$5.23	02/28/2013		A		88,700		(1)	02/28/2023	Common Stock	88,700	\$0.00	88,700	D	
Restricted Stock Units	\$5.23	02/28/2013		A		42,900		(2)	(3)	Common Stock	42,900	\$0.00	60,750	D	

Explanation of Responses:

1. The options vest ratably over 3 years as follows: 29,567 shares vest on February 28, 2014; 29,567 shares vest on February 28, 2015; and 29,566 shares vest on February 28, 2016.

2. The reporting person received 42,900 restricted stock units on February 28, 2013. The restricted stock units vest on February 28, 2016.

3. The restricted stock units do not expire.

**Remarks:** 

/s/ Jon S. Ploetz, Attorney-in-Fact 03

03/01/2013

\*\* 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.

OMB APPROVAL