SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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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).
	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								
Estimated average burden									
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1. Name and Address of Reporting Person [*] Slone Deck			2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]	(Check	tionship of Reporting Perso all applicable) Director Officer (give title	erson(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 02/23/2012	Х	below) VP/Govt Investor &	below) Public Aff	
(Street) ST. LOUIS (City)	MO (State)	63141 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filing (Form filed by One Repor Form filed by More than Person	ting Person	

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)	Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			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)		of		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	\$13.93	02/23/2012		A		42,400		(1)	02/23/2022	Common Stock	42,400	\$0.00	42,400	D	
Restricted Stock Units	\$13.93	02/23/2012		A		16,800		(2)	(3)	Common Stock	16,800	\$0.00	16,800	D	

Explanation of Responses:

1. The options vest ratably over 3 years as follows: 14,134 shares vest on February 23, 2013; 14,133 shares vest on February 23, 2014; and 14,133 shares vest on February 23, 2015.

2. The reporting person received 16,800 restricted stock units on February 23, 2012. The restricted stock units vest on February 23, 2015.

3. The restricted stock units do not expire.

Remarks:

/s/ Jon S. Ploetz, Attorney-in-02/27/2012

Fact

** 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.