FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

UMB APPRO	VAL
OMB Number:	3235-0287
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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Slone Deck					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 SUITE 300				02/	3. Date of Earliest Transaction (Month/Day/Year) 02/27/2014							below) Sr. V	ow)` ' c Pol			
(Street) ST. LOUIS (City)	S MC	te) (Z	3141 Zip)	-	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - Non-Deri	vative	Sec	urities	Acc	uired, Dis	sposed o	f, or Ben	eficially	/ Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) 5)				5. Amoun Securities Beneficia Owned Fo	s F lly (ollowing (6. Ownershi Form: Direct D) or Indirect I) (Instr. 4)	t B	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code V	Amount	(A) or (D)	Price	Transacti (Instr. 3 a	on(s)		"	11501. 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		3A. Deemed Execution Date, if any (Month/Day/Year	4. Transactio Code (Inst 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form: Direct or Ind (I) (Ins	(D) rect	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Performance Shares	\$4.51	02/27/2014		A		68,300		(1)	(2)	Common Stock	68,300	\$0.00	68,300	Г		
Restricted Stock Units	\$4.51	02/27/2014		A		68,300		(3)	(4)	Common Stock	68,300	\$0.00	129,050	Г		

Explanation of Responses:

- $1.\ The\ reporting\ person\ received\ 68,300\ performance\ shares\ on\ February\ 27,\ 2014.\ The\ performance\ shares\ vest\ on\ February\ 27,\ 2017.$
- 2. The performance shares do not expire.
- 3. The reporting person received 68,300 restricted stock units on February 27, 2014. The restricted stock units vest on February 27, 2017.
- 4. The restricted stock units do not expire.

Remarks:

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

Fact

** Signature of Reporting Person Date

03/03/2014

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.