## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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0.5

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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

											. ,									
1. Name and Address of Reporting Person*					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Strobel	<u>Jeffrey V</u>	<u>V.</u>				<u></u>	<u> </u>		<u></u> [ /1	_ <u>.</u> ]					Direct	or		10% O	wner	
(Loot)	<b>/</b> F:	rot)	(Middle)	<b> </b>	Date of Earliest Transaction (Month/Day/Year)								$\dashv$	X Office below	cer (give title ow)		Other (sbelow)	specify		
(Last) (First) (Middle)						09/13/2013									Vice	Pres, Bus	Dev	& Strates	(y	
ONE CI	ΓΥΡLΑCE	DRIVE																		
(Street)					4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
ST. LOUIS MO 63141														X Form filed by One Reporting Person				on		
,														Form Perso	filed by Mor	e thar	n One Repo	orting		
(City)	(S	tate)	(Zip)																	
		Tab	le I - Non-	-Derivat	tive \$	Seci	uritie	es A	cquired,	Dis	posed	of, or B	ene	ficia	lly Owne	d				
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da					Ex r) if a	A. Deemed Execution Date, f any Month/Day/Yea		e, Transaction Dis Code (Instr. 5)		Dispose	curities Acquired (A) osed Of (D) (Instr. 3,			Benefic	ties Fo cially (D Following (I)		str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)		Price	Transa (Instr. 3	ction(s)			(mistr. 4)	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
			(е	e.g., put	ts, ca	alls,	war	rants	s, optior	s, c	onverti	ible sec	urit	ies)						
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	ate, Tra	Transactio Code (Inst				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Co	ode V	,	(A)	(D)	Date Exercisab		xpiration ate	Title	or Nu of	nount mber ares						
Phantom Stock	(1)	09/13/2013		A	A		10		(2)		(2)	Common Stock		10	\$4.69	1,554	$\neg$	D		

## **Explanation of Responses:**

- 1. Each share of phantom stock represents a right to receive the value in cash of one share of Arch Coal, Inc. common stock. The shares of phantom stock are held by the Executive Officer through the Arch Coal, Inc. Deferred Compensation Plan (the "Plan") and represent past compensation, the vested portion of restricted stock awards and/or payouts under other incentive compensation arrangements that the Executive Officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal Common stock and/or dividends paid with respect to such deferral amounts.
- 2. Shares of phantom stock are payable in cash on the date or dates elected by the executive officer, subject to the terms of the Plan. The executive officer may transfer any and all of the phantom stock account into an alternative investment account at any time.

## Remarks:

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

**Fact** 

\*\* Signature of Reporting Person

Date

09/17/2013

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.