FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number: 3235-02									
	Estimated average burden									
1	hours per response:	0.5								

obligations may continue. See Instruction 1(b).					pursuant to Section 16(a) of the Securities Exchange Act of 1934										hour	rs per re	sponse:	0.5
Name and Address of Reporting Person* Strobel Jeffrey W.					or Section 30(h) of the Investment Company Act of 1940 2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]								neck all app Direct	licable) tor	10% O		wner	
(Last)	st) (First) (Middle) IE CITYPLACE DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 05/29/2013								below	,	ve title Other (specification) es, Bus Dev & Strategy				
(Street) ST. LOUIS MO 63141 (City) (State) (Zip)				4. If Am	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - Nor	n-Deriv	ative Se	ecurities A	cquii	red,	Disp	osed	of, o	r Bene	eficia	lly Owne	d			
Date					2A. Deemed Execution Date if any (Month/Day/Ye	e, T	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				d Securit Benefic Owned Report	neficially ned Following ported		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						C	Code	٧	Amount	nt (A) or P		Price	Transaction(s) (Instr. 3 and 4)					
		Т				urities Acc	•	•			•		-	Owned				
1. Title of Derivative Security (Instr. 3)	vative Conversion Date Execution Date irity or Exercise (Month/Day/Year) if any		Date,	4. Transactioi Code (Instr B)		Expir	ate Exercisable and iration Date nth/Day/Year)			Amo Secu Unde Deriv	le and unt of crities erlying vative Se r. 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)	

Explanation of Responses:

(1)

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.

Date

Exercisable

(2)

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:

Phantom

Stock

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

Amount Number of Shares

20

\$5.19

1,356

05/30/2013

D

Fact

Expiration

(2)

Date

Title

Stock

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Code ٧

A

(A) (D)

20

 * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

05/29/2013

** 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.