FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

wasnington,	, D.C.	20549

Check this box if no longer subject to	S.
Section 16. Form 4 or Form 5	•
obligations may continue. See	
Instruction 1(b).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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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* <u>Strobel Jeffrey W.</u>					2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]										neck all a Di	tionship of Reporting F all applicable) Director Officer (give title below) Vice Pres, Bus D		10% C		wner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 10/31/2012									^ be	Dev	Other (sbelow) * & Strateg			· ·			
(Street) ST. LOU	TIS M	0 (63141		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					on		
(City)	(S	-	(Zip)																		
		Tab	le I - Nor	ı-Deriv	ative	Sec	curitie	es Ac	quire	d, D	isp	osed (of, or E	3ene	eficia	lly Ow	nec	d t			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,			Code (Instr. 5)				S, 4 and Secur Bene Owne		ities Ficially (I		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Cod	ie V	<i>,</i>	Amount (A) or (D)		Price	Trai	Reported Transaction(s) (Instr. 3 and 4)				(11150.4)					
	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. Deeme Execution if any (Month/Day	Date,		ransaction Code (Instr.		of I		6. Date Exercisable a Expiration Date (Month/Day/Year)			d 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)					9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Own Forn Dire or In (I) (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Exp Dat	oiration te	Title	or No of	umber						
Phantom Stock	(1)	10/31/2012			Α		13		(2)			(2)	Common	n	13	\$7.96		284		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-

11/02/2012

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.