## FORM 4

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

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:

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

Name and Address of Reporting Person*     Strobel Jeffrey W.						2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]									heck all ap Dire	nip of Reporting Peoplicable) ector cer (give title		10% O			
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 02/06/2013									^ belo			below)			
(Street) ST. LOU (City)			63141 (Zip)		- 4. l	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Lir	ne) X For For	idual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transa Date (Month/D.						Execution Date,			e,   1	Code (Instr. 5)		Acquired (A) or (D) (Instr. 3, 4 and		d Secur Bene Owne	5. Amount of Securities Beneficially Owned Following Reported		ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							G	Code	V	Amount	Amount (A) or (D)		Price	Trans	nsaction(s) str. 3 and 4)			(IIISU: 4)			
		Т	able II - I									sed of onverti				y Owne	I	•	,		
1. Title of Derivative Security (Instr. 3)  Conversion or Exercise Price of Derivative Security			3A. Deeme Execution if any (Month/Da	Date,	Code (Ins				Expi	6. Date Exercisable Expiration Date (Month/Day/Year)			le and 7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)		e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exer	e rcisable	Ex Da	piration ate	Title		Amount or Number of Shares						
Phantom Stock	(1)	02/06/2013			A		17			(2)		(2)	Comn		17	\$6.1	452		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

02/07/2013

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

- $^{\star}$  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.