## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

wasiiiigioii,	D.C. 20349	

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

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden
hours per response: 0.5

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 ]									ck all appl Direct	icable) or	g Per	rson(s) to Iss	wner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 09/18/2013										r (give title ) Pres, Bus	Dev	Other (sbelow)  8 Strateg	·	
(Street) ST. LOU (City)		MO 63141  (State) (Zip)				4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ine)  X 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																			
Date				2. Transa Date (Month/I		Execution Date			Code (I		Dispose	rities Acquired (A) ed Of (D) (Instr. 3, 4			5. Amou Securiti Benefic Owned Reporte Transac (Instr. 3	ies For (D) Following ed ction(s)		n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 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. Deemee Execution I if any (Month/Day	Date,	4. Transaction Code (Instr. 8)				6. Date Exe Expiration (Month/Day	Date		le and 7. Title and Amount of Securities Underlying Derivative Set (Instr. 3 and 4			. Price of perivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	de V	(A)	(D)	Date Exercisable		xpiration ate	Title	Amo or Num of Shar	ber						
Phantom Stock	(1)	09/18/2013			A		21		(2)		(2)	Common Stock	2:	1	\$5	1,574		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-

09/19/2013

**Fact** 

\*\* Signature of Reporting Person

Date

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.