### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPROVAL									
	OMB Number:	3235-0287								
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0.5

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# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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>Cochran Kenneth D.</u>					2. Issuer Name <b>and</b> Ticker or Trading Symbol ARCH COAL INC [ ACI ]							heck all appl Direct	or	10% O	wner
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300				C	3. Date of Earliest Transaction (Month/Day/Year) 09/13/2013							X Officer (give title below) Other (special below)  Sr. VP - Operations			
(Street) ST. LOUIS MO 63141  (City) (State) (Zip)			4	4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(3)		le I - Non-D	Ocrivati	, So	ouriti.	oc A	nauirod D	icnocod	of or Bo	noficia	Ily Owno			
1. Title of Security (Instr. 3)  2. Transar Date (Month/Date)  Table II - Derivati				Transaction to the transaction t	Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (A) or (A) or (A) or (Month/Day/Year)				red (A) or str. 3, 4 an	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)  6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) (I		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Yea				ransaction of Code (Instr. Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 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)	
				Cod	e V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Phantom Stock	(1)	09/13/2013		A		113		(2)	(2)	Common Stock	113	\$4.69	17,797	D	

- 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"). The shares of phantom stock acquired by the executive officer represent dividends attributable to amounts that the executive officer elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.
- 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.