FORM 4

obligations may continue. See

Instruction 1(b)

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: 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

Name and Address of Reporting Person* Cochran Kenneth D.						2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									k all appl Direct	,	g Perso	on(s) to Iss 10% Ov Other (s	vner
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300						3. Date of Earliest Transaction (Month/Day/Year) 04/16/2014									below			below)	эрсспу
(Street) ST. LOUIS MO			63141		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filin Line) X Form filed by One Rep Form filed by More that Person									Repor	porting Person			
(City)	(S		(Zip) le I - Non	Davis	4:	Car		A		Die		-f -= D		:-!!.	. 0				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date) Table II - Derivativ					ay/Yea	2A. Deemed Execution Date,				action (Instr.	4. Secu Dispose 5) Amount	ccurities Acquired (A) osed Of (D) (Instr. 3, 4 unt (D) Pr			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		6. Own Form: I (D) or I (I) (Inst	Direct Indirect tr. 4)	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/Year)	3A. Deemec Execution E if any (Month/Day	Date, T	Code (In				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		D S (Ii	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	O Fe Di (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					ode	v	(A)	(D)	Date Exercisal		expiration pate	Title	Amour or Number of Shares	er					
Phantom Stock	(1)	04/16/2014			A		104		(2)		(2)	Common Stock	104		\$4.97	18,073		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

04/17/2014

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.