Instruction 1(b)

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
Section 16. Form 4 or Form 5	
obligations may continue. See	

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

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	onship of Reportir all applicable) Director Officer (give title		on(s) to Iss 10% O	wner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300			06/	3. Date of Earliest Transaction (Month/Day/Year) 06/14/2013									below	Sr. VP - (below) tions	. ,		
(Street) ST. LOUIS MO 63141			4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S	tate) ((Zip)																
		Tab	le I - Non-	-Deriva	ative	Sec	uritie	es Ad	cquired,	Dis	posed	of, or B	enefic	ally	Owne	d			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date			Code (nstr. 5) (A) or F			4 and Securit Benefic Owned Report Transa		ties For (D) (I) (I ed ction(s)		Direct Indirect str. 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. Deemed Execution D if any (Month/Day/	Date, T		ansaction of the control of the cont		osed) :. 3, 4	Expiration	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (Ir	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	, C	.0. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisabl		xpiration ate	Title	Amour or Number of Shares	r					
Phantom Stock	(1)	06/14/2013			A		124		(2)		(2)	Common Stock	124		\$4.24	17,684		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"). 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

06/18/2013

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.