FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP
• ., ==	J. J. 17 11 12 12 1		•

	OMB APPROVAL								
	OMB Number:	3235-0287							
l	Estimated average burden								
l	hours per response:	0.5							

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

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* Wold Peter I				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									heck all a	pplicable) ector	·	rson(s) to Is	wner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300				3. Date of Earliest Transaction (Month/Day/Year) 12/14/2012									Off bel	cer (give tit	e	Other (below)	specify	
(Street)		0 (53141		4. If A	mendr	ment,	Date	of Original Fi	iled (Month/D	ay/Year)		ne) X Fo Fo	m filed by 0	ne Rep	ng (Check Ap porting Perso an One Repo	on
(City)	(Si		Zip) le I - Non-l	Deriva	tive S	Secu	rities	s Ac	quired, D	isp	osed (of, or Be	eneficia	ılly Owı	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,			Code (In:	ion str.	4. Secur Dispose 5)	ities Acqui	str. 3, 4 aı	nd Secu Bene Own Repo Tran	Securities Beneficially		wnership m: 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. Deemed Execution Date, if any (Month/Day/Year	ate, Tra	Transaction Code (Instr.		n of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price Derivativ Security (Instr. 5)		ve es ally ng d tion(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Co	ode V	, ((A) ((D)	Date Exercisable	Exp Dat	oiration te	Title	Amount or Number of Shares					
Phantom Stock	(1)	12/14/2012		-	A		91		(2)		(2)	Common Stock	91	\$7.66	23,3	24	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 director through the Arch Coal, Inc. Deferred Compensation Plan for Non-Employee Directors (the "Plan") and represent past compensation that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock and/or dividends attributable to such deferred amounts.
- 2. Shares of phantom stock are payable in cash following termination of the director's service as a director of Arch Coal, Inc. The director may transfer certain portions 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

12/18/2012

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.