FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

	Washingtor	1, D.C. 20549	
STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

O	OMB APPROVAL										

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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 S	Sectio	n 30(h) (of the	Inves	stment C	Compa	any Act	of 19	40							
1. Name and Address of Reporting Person* Wold Peter I				2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]									(Cr	ieck all	tionship of Reporting Person(s) to Issuer all applicable)						
															irecto			10% Ov			
(Last) ONE CIT	ΓΥΡLACE	•	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 09/30/2013									officer elow)	(give title		Other (s	specify			
SUITE 500				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable							
(Street)	TIS M	O	63141												Lin	Х F		iled by Moi	•	orting Person	
(City)	(S	ate)	(Zip)																		
		Tab	le I - Nor	n-Deriv	ative	Sec	curitie	s Ac	quir	red, D	ispo	sed c	of, o	r Ben	eficial	ly Ov	vnec	I			
1. Title of Security (Instr. 3) 2. Transar Date (Month/Da				Execution Date,		, Τι C	Transaction Dispose Code (Instr. 5)			rities Acquired (A) ed Of (D) (Instr. 3, 4			4 and Secur Benef Owne		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
								С	ode V	' A	Amount		(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		tion(s)			(Instr. 4)	
		Т	able II -	Derivat (e.g., p						•	•		•		-	Owr	ed				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution I	Date,	4. Transa Code (I 8)		of		Expir	6. Date Exercisable a Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			8. Pric Deriva Secur (Instr.	itive ity	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	O Fe D OI (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date	cisable	Expir Date	iration	Title	1	Amount or Number of Shares						

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 amounts held in the phantom stock account into an alternative investment account at any time.

4 942

Remarks:

Phantom

Stock

/s/ Jon S. Ploetz, Attorney-in-

4,942

\$4 11

Fact

Common

Stock

** Signature of Reporting Person

10/01/2013 Date

40 627

D

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).

09/30/2013

** 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.