FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

CTATEMENIT	OF CHANCES	IN DENETICIAL	OWNEDCHID
SIAIEMENI	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	VAL						
OMB Number:	3235-0287						
Estimated average burden							
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]						neck all appli	cable) or	Person(s) to Is	wner	
(Last) (First) (Middle) ONE CITYPLACE DRIVE SUITE 300				3. Date of Earliest Transaction (Month/Day/Year) 12/30/2011							Officer below)	(give title	Other (below)	specify	
(Street) ST. LOUIS MO 63141			4.	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. Lin	e) X Form	or Joint/Group Filing (Check Ap m filed by One Reporting Perso m filed by More than One Repo son		on		
(City)	(SI		(Zip)												
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date) Table II - Derivativ				ransaction e onth/Day/Y	Execution Date, if any (Month/Day/Year) (Month/Day/Year) Transaction Code (Instr. 8) Disposed Of (D) (Instr. 3, 4			r Price	5. Amou Securiti Benefici Owned I Reporte Transac (Instr. 3	6. Amount of Securities (D) or Ir (D) when Form: E (D) or Ir (D) or Ir (D) care (D)		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)		Code	action (Instr.	of		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((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Phantom Stock	(1)	12/30/2011		A		2,197		(2)	(2)	Common Stock	2,197	\$14.51	10,836	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 amounts held in the phantom stock account into an alternative investment account at any time.

Remarks:

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

Fact

** Signature of Reporting Person

01/03/2012 Date

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.