Wold Peter I

Form 3 July 23, 2010									
FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549				OMB	9PROVAL 3235-0104				
INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940					Number: Expires: Estimated a burden hou response on	January 31, 2005 average Irs per			
(Print or Type Re	esponses)								
Person * Statement			2. Date of Event Requiring Statement (Month/Day/Year)	^g 3. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ACI]			ymbol		
(Last)	(First)	(Middle)	07/21/2010	4. Relationshi Person(s) to I			5. If Amendment, Date Original Filed(Month/Day/Year)		
ONE CITYPLACE DRIVE, SUITE 300				(Check all applicable)					
ST. LOUIS,Â	(Street)	3141		X Director Officer (give title below	r 10% Other w) (specify below	r Filin ow) <u>X</u> Pers	ndividual or Join ng(Check Applica Form filed by On- on Form filed by Mor orting Person	ble Line) e Reporting	
(City)	(State)	(Zip)	Table I - N	Non-Derivat	ive Securit	ies Benefi	Beneficially Owned		
1.Title of Securi (Instr. 4)	ty		2. Amount o Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature o Ownership (Instr. 5)	of Indirect Benef	īcial	
Common Sto	ck		500		D	Â			
Reminder: Report owned directly o			ach class of securities benefic	^{ially} S	EC 1473 (7-02	2)			
	inforr requi	nation conta red to respo	pond to the collection of ained in this form are not nd unless the form displ MB control number.	t					

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
(Instr. 4)	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial Ownership
	(Month/Day/Year)	Derivative Security	or Exercise	Form of	(Instr. 5)
		(Instr. 4)	Price of	Derivative	
		Title	Derivative	Security:	
			Security	Direct (D)	

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Date	Expiration	Amount or	or Indirect
Exercisable	Date	Number of	(I)
		Shares	(Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
Wold Peter I ONE CITYPLACE DRIVE SUITE 300 ST. LOUIS, MO 63141	ÂX	Â	Â	Â	
Signatures					
/s/ Jon S. Ploetz, Attorney-in-Fact	07/23/2010				
**Signature of Reporting Person		Date			

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 5(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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.