#### Edgar Filing: ARCH COAL INC - Form 4

Form 4	C									
October 05, 2010										
FORM 4			~~~~						PPROVA	L
	UNITED	STATES		RITIES A shington			E COMMISSIO	N OMB Number:	3235-(	)287
Check this box if no longer								Expires:	Januar	y 31, 2005
STATEMENT OF CHANGES IN BENEFICIAL OWNE Section 16. Form 4 or							Estimated burden hou response	average urs per	0.5	
Form 5 obligations may continue. See Instruction 1(b).	Section 17(	a) of the F	Public U	tility Hol	ding Co		inge Act of 1934, t of 1935 or Secti 1940			
(Print or Type Respon	nses)									
1. Name and Addres BOYD JAMES I		Person <u>*</u>	Symbol	er Name <b>and</b>		-	5. Relationship Issuer	of Reporting Per	rson(s) to	
			ARCH COAL INC [ACI]				(Check all applicable)			
(Last) (First) (Middle) ONE CITYPLACE DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 10/01/2010			XDirector10% Owner Officer (give titleOther (specify below)below)				
				4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			
ST. LOUIS, MO	63141						Form filed by Person	More than One R	eporting	
(City) (	State)	(Zip)	Tab	le I - Non-l	Derivativ	e Securities A	Acquired, Disposed	of, or Beneficia	lly Owned	l
	ansaction Date th/Day/Year)		Date, if	3. Transactio Code (Instr. 8) Code V	Dispose (Instr. 3	d (A) or d of (D) , 4 and 5) (A) or	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature Indirect Beneficial Ownershi (Instr. 4)	1
Reminder: Report on	a separate line	e for each cla	ass of sect	urities bene:	Pers info requ	ons who rearmation con ired to resp lays a curre	or indirectly. spond to the colle tained in this form ond unless the fo ontly valid OMB co	n are not rm	SEC 1474 (9-02)	

# Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amount of	8. Pric
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onof Derivative	Expiration Date	Underlying Securities	Deriva
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)	Securi
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired			(Instr.

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Derivative Security				<ul> <li>(A) or</li> <li>Disposed of</li> <li>(D)</li> <li>(Instr. 3, 4, and 5)</li> </ul>							
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Phantom Stock	(1)	10/01/2010	А		1,592		(2)	(2)	Common Stock	1,592	\$ 26

### **Reporting Owners**

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer Other				
BOYD JAMES R							
ONE CITYPLACE DRIVE	Х						
ST. LOUIS, MO 63141							
Signatures							
/s/ Jon S. Ploetz.							

Attorney-in-Fact	10/05/2010
**Signature of Reporting Person	Date

## **Explanation of Responses:**

- \* 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).

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")

- phantom stock are need by the director through the Arch Coal, inc. Deterred Compensation Fian for Non-Employee Directors (the Fian 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.

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.