### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
notypotion 1/h)

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	DVAL
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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*															5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
										-					X Direct	or		10% O	wner		
(Last) (Filst) (Midule)					3. Date of Earliest Transaction (Month/Day/Year) 09/15/2011										Office below	r (give title )		Other ( below)	specify		
SUITE 300					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable						
(Street) ST. LOUIS MO 63141														X Form filed by One Reporting Person Form filed by More than One Reporting							
(City)	(Si	tate) (	Zip)												Person						
		Tab	le I - Non	-Deriva	ative	Sec	curitie	es Ac	quired,	Dis	osed	of, or B	ene	ficial	ly Owne	d					
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					Execut			on Date	Code (I	Transaction Dispose Code (Instr. 5)		rities Acqu ed Of (D) (I	iired ( nstr. :	A) or 3, 4 and	Benefic Owned	ies ially Following	Form (D) o	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D) Pr		Price	Transac	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
		T	able II - [						uired, Di						Owned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemee Execution I if any (Month/Day	Date, T	Transac Code (I		ı of E		<b>Expiration</b>	s. Date Exercisable and Expiration Date Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	ly C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)		Date Exercisable		piration ate	or		nount mber ares							
Phantom Stock	(1)	09/15/2011			A		34		(2)		(2)	Common Stock		34	\$20.34	6,386		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-

09/19/2011

**Fact** 

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.