SEC I	Form 4
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# 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
Instruction 1(b).

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

	ROVAL
OMB Number:	3235-0287
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hours per response:	0.5

hours per response:	0.5
Estimated average burden	

r. Name and Address of Reporting Ferson			2. Issuer Name and Ticker or Trading Symbol <u>ARCH COAL INC</u> [ ACI ]	(Check	ationship of Reporting Person(s) to Issuer k all applicable)		
(Last) ONE CITYPL	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 03/15/2007	X	Director Officer (give title below)	10% Owner Other (specify below)	
(Street) ST. LOUIS (City)	MO (State)	63141 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Filir Form filed by One Re Form filed by More the Person	porting Person	
		Table I - Non-Deriv	ative Securities Acquired, Disposed of, or Benefi	cially	Owned		

. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			Owned Following	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	<ul> <li>Reported Transaction(s) (Instr. 3 and 4)</li> </ul>	(Instr. 4)

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

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		Amount of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. 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)	03/15/2007		Α		70		(2)	(2)	Common Stock	70	\$30.2	35,180	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"). The shares of phantom stock acquired by the director represent dividends attributable to amounts that the director elected to defer under the Plan into a hypothetical investment in shares of Arch Coal, Inc. common stock.

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/ Gregory A. Billhartz, Attorney-in-Fact

03/19/2007

\*\* Signature of Reporting Person

Date

 $^{\ast}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

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

\*\* 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.