## SEC Form 5

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# FORM 5

Form 3 Holdings Reported.

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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Form 4 Transacti	ions Reported.	Filed	pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 $$				
			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>ARCH COAL INC</u> [ ACI ]	(Check	tionship of Reporting Perso all applicable) Director Officer (give title	n(s) to Issuer 10% Owner Other (specify	
(Last) ONE CITYPLA	(First) CE DRIVE	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2004	Х	below) VP-Law, Gen. Couns	below)	
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	idual or Joint/Group Filing (	Check Applicable		
ST. LOUIS	MO	63141		X	Form filed by One Reporting Person		
(City)	(State)	(Zip)			Form filed by More than ( Person	One Reporting	

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acc Of (D) (Instr. 3, 4		or Disposed	5. Amount of Securities Beneficially Owned at end of	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price	Issuer's Fiscal Year (Instr. 3 and 4)		
Common Stock	12/31/2004(1)		A	19	A	(1)	2,169	Ι	By Plan

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

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. Transaction Code (Instr. 8)	of Derive Secur Acqui (A) or Dispo of (D) (Instr.	5. Number of Expiration Date Derivative (Month/Day/Year) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Amoun Securit Underly Derivat	7. Title and 8. Price of Amount of Derivative Securities Security Underlying (Instr. 5) Derivative Security (Instr. 3 and 4)		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)	
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. Acquired on various dates in 2004 pursuant to periodic investments in Arch Coal Inc.'s 401(k) plan at prices from \$26.36 to \$39.00 per share.

**Remarks:** 

### /s/ Janet L. Horgan, Attorney-

in-Fact

02/14/2005

\*\* Signature of Reporting Person 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.