## SEC Form 5

# FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

Form 3 Holdings Reported.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## ANNUAL STATEMENT OF CHANGES IN BENEFICIAL **OWNERSHIP**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL

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Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
(City) (State) (Zip)			—	Form filed by More than One Reporting Person				
(Street) ST. LOUIS	МО	63141	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person				
(Last) ONECITYPL	(First) ACE DRIVE	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2003	X Officer (give title Other (specify below) below) President & CEO				
1. Name and Add	1 0	Person*	2. Issuer Name and Ticker or Trading Symbol ARCH COAL INC [ ACI ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
Form 4 Transa	actions Reported.		or Section 30(h) of the Investment Company Act of 193	34				

#### 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 Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned at end of	6. Ownership Form: Direct	7. Nature of Indirect Beneficial
				Amount	(A) or (D)	Price	Issuer's Fiscal Year (Instr. 3 and 4)	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	12/31/2003(1)		I	240	A	(1)	24,077	I <sup>(2)</sup>	By 401(k) 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) 4. Code (Instr. 8) 4. Code (Instr. 8) 4. Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3) 4. Derivati		ative rities ired osed 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) Derivative Security ( and 4)			Int of Derivative Security (Instr. 5) ative rity (Instr. 3			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 2003 pursuant to periodic investments in Arch Coal Inc.'s 401(k) plan at prices from \$21.84 to \$31.17 per share.

2. Reporting person also holds 1,010 shares directly.

**Remarks:** 

/s/ Janet L. Horgan, Attorney-02/16/2004 in-Fact

\*\* 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.