

ARCH COAL INC  
Form 4  
May 15, 2008

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

OMB APPROVAL

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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Slone Deck

(Last) (First) (Middle)  
ONE CITYPLACE DRIVE, SUITE 300  
(Street)

ST. LOUIS, MO 63141

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
ARCH COAL INC [ACI]

3. Date of Earliest Transaction (Month/Day/Year)  
05/15/2008

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
VP Investor Rel & Public Aff

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting Person

**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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	05/15/2008		M		6,300 A \$ 9.08	17,100	D
Common Stock	05/15/2008		M		5,800 A \$ 10.98	22,900	D
Common Stock	05/15/2008		M		12,600 A \$ 11.3	35,500	D
Common Stock	05/15/2008		S		5,400 D \$ 63.55	30,100	D
Common Stock	05/15/2008		S		4,300 D \$ 63.65	25,800	D

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Common Stock	05/15/2008	S	3,000	D	\$ 63.8	22,800	D
Common Stock	05/15/2008	S	7,800	D	\$ 63.85	15,000	D
Common Stock	05/15/2008	S	1,300	D	\$ 63.88	13,700	D
Common Stock	05/15/2008	S	1,200	D	\$ 63.9	12,500	D
Common Stock	05/15/2008	S	1,700	D	\$ 63.95	10,800	D

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

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**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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
Employee Stock Options (right to buy)	\$ 9.08	05/15/2008		M	6,300	<u>(1)</u>	02/29/2012	Common Stock	6,300
Employee Stock Options (right to buy)	\$ 10.98	05/15/2008		M	5,800	<u>(2)</u>	02/22/2011	Common Stock	5,800
Employee Stock Options (right to buy)	\$ 11.3	05/15/2008		M	12,600	<u>(3)</u>	04/25/2012	Common Stock	12,600

