

Slone Deck  
Form 3  
August 08, 2005

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *		2. Date of Event Requiring Statement	3. Issuer Name <b>and</b> Ticker or Trading Symbol	
Â Slone Deck		(Month/Day/Year)	ARCH COAL INC [ACI]	
(Last)	(First)	(Middle)	07/28/2005	
ONE CITYPLACE DRIVE,Â SUITE 300			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
ST. LOUIS,Â MOÂ 63141			<input type="checkbox"/> Director	<input type="checkbox"/> 10% Owner
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer	<input type="checkbox"/> Other
			(give title below)	(specify below)
			VP Investor Rel & Public Aff	6. Individual or Joint/Group Filing(Check Applicable Line)
				<input checked="" type="checkbox"/> Form filed by One Reporting Person
				<input type="checkbox"/> Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

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(Instr. 5)

Employee Stock Options	Â <u>(1)</u>	07/23/2007	CommonStock	500	\$ 27.87	D	Â
Employee Stock Options	Â <u>(2)</u>	02/29/2012	Common Stock	3,150	\$ 18.15	D	Â
Employee Stock Options	Â <u>(3)</u>	04/25/2012	Common Stock	6,300	\$ 22.6	D	Â
Employee Stock Options	Â <u>(4)</u>	07/22/2008	Common Stock	750	\$ 22.875	D	Â
Employee Stock Options	Â <u>(5)</u>	02/22/2011	Common Stock	2,900	\$ 21.95	D	Â
Phantom Stock	Â <u>(6)</u>	12/31/2008	Common Stock	2,700	\$ <u>(7)</u>	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Slone Deck ONE CITYPLACE DRIVE SUITE 300 ST. LOUIS, MO 63141	Â	Â	Â VP Investor Rel & Public Aff	Â

## Signatures

/s/ Janet L. Horgan,  
Attorney-in-Fact

08/08/2005

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 5(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).

(1) These options vested as follows: 167 on 7/23/1998; 167 on 7/23/1999; and 166 on 7/23/2000.

(2) The Stock Options vested or will vest as follows: 1,575 on 2/28/2005 and 1,575 on 2/28/2006.

(3) These Stock Options vested or will vest as follows: 1,575 on 4/25/2003; 1,575 on 4/25/2004; 1,575 on 4/25/2005 and 1,575 on 4/25/2006.

(4) These Stock Options vested as follows: 250 on 7/22/1999; 250 on 7/22/2000; and 250 on 7/22/2001.

(5) These Stock Options vested as follows: 967 on 2/22/2002; 967 on 2/22/2003 and 966 on 2/22/2004.

(6) The Phantom Stock will vest in the event the Company's common stock hits target prices of \$70.00 or \$80.00 and the Company's financial performance meets certain targets at such time.

(7) 1-for-1

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure.

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