

Warnecke David N
 Form 3
 August 08, 2005

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

OMB APPROVAL

OMB Number: 3235-0104
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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 and Ticker or Trading Symbol	
Â Warnecke David N		(Month/Day/Year)	ARCH COAL INC [ACI]	
(Last)	(First)	(Middle)	4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
CITYPLACE ONE,Â SUITE		07/28/2005	(Check all applicable)	
300			<input type="checkbox"/> Director	<input type="checkbox"/> 10% Owner
(Street)			<input checked="" type="checkbox"/> Officer	<input type="checkbox"/> Other
			(give title below)	(specify below)
			VP-Marketing & Trading	
ST. LOUIS,Â MOÂ	63144			6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)		<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)
------------------------------------	----------------------------------------------------------	-------------------------------------------------------------------	----------------------------------------------------------

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

SEC 1473 (7-02)

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 control number.

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	

(Instr. 5)

Employee Stock Options	02/22/2004	02/22/2011	Common Stock	300	\$ 21.95	D	Â
Employee Stock Options	Â (1)	02/29/2012	Common Stock	6,574	\$ 18.15	D	Â
Employee Stock Options	Â (2)	04/25/2012	Common Stock	13,150	\$ 22.6	D	Â
Employee Stock Options	04/28/2008	Â (3)	Common Stock	5,000	\$ 43.5	D	Â
Phantom Stock	Â (4)	12/31/2008	Common Stock	9,400	\$ (5)	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Warnecke David N CITYPLACE ONE SUITE 300 ST. LOUIS, MO 63144	Â	Â	Â VP-Marketing & Trading	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 Stock Options vests as follows: 3,287 on 2/28/2005 and 3,287 on 2/28/2006.
- (2) These Stock Options vest as follows: 3,288 on 4/25/2003; 3,288 on 4/25/2004; 3,287 on 4/25/2005; and 3,287 on 4/25/2006.
- (3) No expiration
- (4) 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.
- (5) 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.