Martin Cary W Form 4 March 10, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL OMB

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5. Relationship of Reporting Person(s) to

Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

Martin Cary W Issuer Symbol CLOUD PEAK ENERGY INC. (Check all applicable) [CLD] 3. Date of Earliest Transaction (Last) (First) (Middle) Director 10% Owner X_ Officer (give title Other (specify (Month/Day/Year) below) below) 505 S. GILLETTE AVE. 03/08/2011 Sr VP, Human Resources

2. Issuer Name and Ticker or Trading

(Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

> Filed(Month/Day/Year) Applicable Line)

> > _X_ Form filed by One Reporting Person Form filed by More than One Reporting

> > > Person

GILLETTE, WY 82716

(State)

(Zip)

(City)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial (Instr. 3, 4 and 5) Indirect (I) Ownership (Month/Day/Year) (Instr. 8) Owned Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price Common

03/08/2011(1) A 2,977 Α \$0 29,177 D Stock

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

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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. Transactic Code (Instr. 8)	5. Number proof Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration D	ate Exercisable and 7. Title and A iration Date Underlying S (Instr. 3 and		Securities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Non-Qualified Stock Option (Right to Buy)	\$ 20.99	03/08/2011		A	5,012	<u>(2)</u>	(3)	Common Stock	5,012
Performance Units	<u>(4)</u>	03/08/2011		A	5,955	<u>(4)</u>	<u>(4)</u>	Common Stock	5,955

Reporting Owners

Reporting Owner Name / Address			Relationships	
•	Director	10% Owner	Officer	Other
Martin Cary W				
505 S. GILLETTE AVE.			Sr VP, Human Resources	

Signatures

GILLETTE, WY 82716

/s/ Amy J. Stefonick, attorney-in-fact for Cary Martin 03/10/2011

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- (1) Restricted Stock Award which vests as to 100% three years after the date of grant.
- (2) 100% of the option vests three years after the date of grant.
- (3) Nonqualified options granted under Cloud Peak Energy Inc.'s 2009 Long Term Incentive Plan expire ten years after the date of grant.
 - Each performance right represents a contingent right to receive one share of Cloud Peak Energy Inc. common stock. The performance rights vest 3 years from the date of grant upon Cloud Peak Energy's achievement of Performance Goals, which are based upon Cloud
- (4) Peak Energy's relative total shareholder return. These achievements may result in a payout range between 0% and 200% of the target. The number of performance rights shown in columns 5 and 7 is equal to the target number of performance rights that may be earned. There is no expiration date for performance rights.

Remarks:

On March 5, 2010, the reporting person was designated by the Board of Directors of the issuer as an "officer" of the issuer, as Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

Reporting Owners 2

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