Murphy Kent A Form 4 May 24, 2010

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

if no longer subject to Section 16. Form 4 or

Check this box

January 31, Expires: 2005

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

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue.

30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Murphy Kent A Issuer Symbol

> LUNA INNOVATIONS INC (Check all applicable) [LUNA]

(Last) (First) (Middle) 3. Date of Earliest Transaction _X__ Director X 10% Owner X_ Officer (give title _ Other (specify

(Month/Day/Year) below) below) C/O LUNA INNOVATIONS 05/20/2010 **CEO**

INCORPORATED, 1 RIVERSIDE CIRCLE, SUITE 400

> (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 ROANOKE, VA 24016

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 5. Amount of 7. Nature of 4. Securities Acquired (A)

Security (Month/Day/Year) Execution Date, if Transaction Disposed of (D) Securities Ownership Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned Direct (D) Ownership **Following** or Indirect (Instr. 4) Reported (A)

Transaction(s) (Instr. 4) or (Instr. 3 and 4) Code V (D) Amount Price

Common 05/20/2010 D M 113,047 2,781,457 0.3892 Stock

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)

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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 of orDerivative 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)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount Number Shares
Employee Stock Option (Right to Buy)	\$ 0.3892	05/20/2010		M		113,047	<u>(1)</u>	05/20/2010	Common Stock	113,04

Reporting Owners

Reporting Owner Name / Address	Relationships					
copyrous o made radiation	Director	10% Owner	Officer	Other		
Murphy Kent A C/O LUNA INNOVATIONS INCORPORATED 1 RIVERSIDE CIRCLE, SUITE 400 ROANOKE, VA 24016	X	X	CEO			

Signatures

s/ Talfourd H. Kemper, Jr.,
Attorney-In-Fact

**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).
- One-Quarter of the option shares became exercisable on May 20, 2006, with the remainder vesting pro-rata over three years thereafter on the same day of the month as the vesting commencement date through May 20, 2009.

Remarks:

Exhbit 24.1-Power of Attorney

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.

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