FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL									
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

COOL JONATHAN (I			2. Date of Even Requiring State Month/Day/Yea 01/12/2010	ment	3. Issuer Name and Ticker or Trading Symbol LUNA INNOVATIONS INC [LUNA]							
(Last) C/O LUNA IN INCORPORA	(First) NNOVATIONS	(Middle)			Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			(Mo	If Amendment, Date of Original Filed (Month/Day/Year) Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person			
1 RIVERSIDE CIRCLE, SUITE 400					Officer (give title below)	Other (spec below)	App					
(Street) ROANOKE	VA	24015							Form filed by Reporting Po	y More than One erson		
(City)	(State)	(Zip)										
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)						ally Owned (Instr. 4)			Nature of Indirect Beneficial Ownership nstr. 5)			
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
1. Title of Derivative Security (Instr. 4) 2. Date Exercisable at Expiration Date (Month/Day/Year)			ate	d 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4			4. Conversion or Exercise Price of	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
			Date Exercisable	Expiration Date	Title		Amount or Number of Shares	Derivative Security	Direct (D) or Indirect (I) (Instr. 5)			
Stock Option (Right to Buy)		(1)	01/12/2020		Common Stock	120,000	4.43	D			

Explanation of Responses:

1. Of the Shares subject to the Option, 40,000 Shares vest upon the first anniversary and the remaining 80,000 shares will vest in equal monthly installments over the following 24 months.

/s/ Talfourd H. Kemper, Jr., Attorney-In-Fact 04/05/2010

** Signature of Reporting Person Date

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

- * 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).

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

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 Number.