Cavanagh William Form 3
October 18, 2010

#### 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 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person \* Statement IsoRay, Inc. [ISR] Cavanagh William (Month/Day/Year) 10/07/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 350 HILLS STREET, SUITE (Check all applicable) 106 (Street) 6. Individual or Joint/Group 10% Owner Director \_X\_\_ Officer \_ Other Filing(Check Applicable Line) (give title below) (specify below) \_X\_ Form filed by One Reporting Vice President Person RICHLAND, WAÂ 99354 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 4. Nature of Indirect Beneficial 1. Title of Security 2. Amount of Securities Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 5) (Instr. 4) Form: Direct (D) or Indirect (I) (Instr. 5) Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly.

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		4. Conversion or Exercise	5. Ownership Form of	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I)	

	/T .	~\
	Instr.	•
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Stock Option	(1)	01/08/2020	common stock	30,000	\$ 0.84	D	Â
Stock Option	(2)	06/30/2020	common stock	35,000	\$ 1.43	D	Â

## **Reporting Owners**

Reporting Owner Name / Address	Relationships					
•	Director	10% Owner	Officer	Other		
Cavanagh William						
350 HILLS STREET	â	â	Vice President	Â		
SUITE 106	Α	А	A vice riesident	A		
RICHLAND. WA 99354						

## **Signatures**

William
Cavanagh

\*\*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) Vests 1/3 on 1/18/2011, 1/3 on 1/8/2012, and 1/3 on 1/8/2013.
- (2) Vests 1/3 on 6/30/2011, 1/3 on 6/30/2012, and 1/3 on 6/30/2013.

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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