

INTERNATIONAL ISOTOPES INC  
Form SC 13D/A  
September 22, 2009

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

**SCHEDULE 13D**

**Under the Securities Exchange Act of 1934**

**(Amendment No. 4)\***

**International Isotopes Inc.**

(Name of Issuer)

Common Stock, par value \$0.01 per share

(Title of Class of Securities)

45972C102

(CUSIP Number)

Joanne Tuckman

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Chief Financial Officer

FG2 Advisors, LLC

152 West 57<sup>th</sup> Street, 24<sup>th</sup> Floor

New York, New York 10019

(212) 698-9260

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

September 18, 2009

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 249.13d-1(g), check the following box. "

**Note:** Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page. The information required on the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

**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 control number.**

CUSIP NO. 45972C102

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)

Firebird Global Master Fund II, Ltd.

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a) ..

(b) ..

3. SEC Use only

4. Source of funds (See Instructions)

WC

5. Check if disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) ..

6. Citizenship or Place of Organization

Cayman Islands

7. Sole Voting Power  
Number of

Shares 8. Shared Voting Power

Beneficially

Owned by 29,431,965

Each 9. Sole Dispositive Power

Reporting 10. Shared Dispositive Power

Person

With: 29,431,965

11. Aggregate Amount Beneficially Owned by Each Reporting Person

29,431,965

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) ..

13. Percent of Class Represented by Amount in Row (11)

9.9%

14. Type of Reporting Person (See Instructions)

OO

2

CUSIP NO. 45972C102

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only)

FG2 Advisors, LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a) ..

(b) ..

3. SEC Use only

4. Source of funds (See Instructions)

OO

5. Check if disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) ..

6. Citizenship or Place of Organization

New York

Number of 7. Sole Voting Power

Shares 8. Shared Voting Power

Beneficially

Owned by 29,431,965

Each 9. Sole Dispositive Power

Reporting 10. Shared Dispositive Power

Person

With: 29,431,965

11. Aggregate Amount Beneficially Owned by Each Reporting Person

29,431,965

12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) ..

13. Percent of Class Represented by Amount in Row (11)

9.9%

14. Type of Reporting Person (See Instructions)

IA

3

CUSIP NO. 45972C102

Names of Reporting Persons, I.R.S. Identification Nos. of above persons (entities only)

**James Passin**

Check the Appropriate Box if a Member of a Group (See Instructions)

(a)

(b)

SEC Use only

Source of funds (See Instructions)

**OO**

Check if disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)

Citizenship or Place of Organization

**United States of America**

7. Sole Voting Power

Number of

Shares

8. Shared Voting Power

Beneficially

Owned by

**29,431,965**

Each

9. Sole Dispositive Power

Reporting

10. Shared Dispositive Power

Person

With:

**29,431,965**

Aggregate Amount Beneficially Owned by Each Reporting Person

**29,431,965**

Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)

Percent of Class Represented by Amount in Row (11)

9.9%

Type of Reporting Person (See Instructions)

IN

4



CUSIP NO. 45972C102

Names of Reporting Persons, I.R.S. Identification Nos. of above persons (entities only)

Harvey Sawikin

Check the Appropriate Box if a Member of a Group (See Instructions)

(a) ..

(b) ..

SEC Use only

Source of funds (See Instructions)

OO

Check if disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) ..

Citizenship or Place of Organization

United States of America

7. Sole Voting Power

Number of

Shares

8. Shared Voting Power

Beneficially

Owned by

29,431,965

Each

9. Sole Dispositive Power

Reporting

10. Shared Dispositive Power

Person

With:

29,431,965

Aggregate Amount Beneficially Owned by Each Reporting Person

29,431,965

Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) ..

Percent of Class Represented by Amount in Row (11)

9.9%

Type of Reporting Person (See Instructions)

IN

5

**Item 1. Security and Issuer**

This Amendment No. 4 ( Amendment No. 4 ) to Schedule 13D amends and supplements the Statement on Schedule 13D originally filed on July 13, 2007 and amended on January 28, 2008, on April 17, 2008 and on November 12, 2008 with respect to the Common Stock, par value \$0.01 per share (the Common Stock ) of International Isotopes Inc., a Texas corporation (the Issuer ). The address of the executive offices of the Issuer is 4137 Commerce Circle, Idaho Falls, Idaho, 83401.

Certain terms used but not defined in this Amendment No. 4 have the meanings assigned thereto in the Schedule 13D. The Schedule 13D is hereby amended and supplemented by this Amendment No. 4 as follows:

**Item 2. Identity and Background**

(a-f) This Amendment No. 4 is being filed by Firebird Global Master Fund II, Ltd. (the Fund ), FG2 Advisors, LLC ( FG2 ), James Passin ( Mr. Passin ) and Harvey Sawikin ( Mr. Sawikin ) and together with FG2, the Fund and Mr. Passin, the Reporting Persons ).

James Passin, a citizen of the United States of America, has a business address of 152 West 57th Street, 24th Floor, New York, NY 10019. His principal occupation is manager and controlling principal of FG2 and of FGS Advisors, LLC ( FGS ). Harvey Sawikin, a citizen of the United States of America, has a business address of 152 West 57th Street, 24th Floor, New York, NY 10019. His principal occupation is manager and controlling principal of Firebird Management, LLC, and he is also a controlling principal of FG2 and of FGS.

FG2 is a New York limited liability company which has its principal office at 152 West 57th Street, 24th Floor, New York, NY 10019. The principal business of FG2 is to serve as investment manager to the Fund and to control the investing and trading in securities of the Fund. The principal business of the Fund is to invest and trade in securities.

During the past five years, none of the Reporting Persons have been: (i) convicted in any criminal proceeding, or (ii) a party to any civil proceeding commenced before a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is now subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

**Item 3. Source and Amount of Funds or Other Consideration**

The source of the \$150,000 used on September 18, 2009 to purchase units (each a Unit ), each of which is comprised of one share of Common Stock and one Class G Warrant exercisable for one share of Common Stock, and of the funds used by the Fund to make all prior purchases of shares of Common Stock, was the working capital of the Fund.

**Item 4. Purpose of Transaction**

On behalf of the Fund, FG2 has directed the purchase of the Units reported by them as an investment for the Fund. FG2 and the Fund share investment power and voting power with respect to the Units and the shares of Common Stock reported by them (the Shares ). Mr. Passin and Mr. Sawikin, who serve as the control persons of FG2, share investment power and voting power with respect to the Units and the Shares reported by FG2 and the Fund. The Reporting Persons acquired the Units because FG2 considered the Units to be an attractive investment opportunity. FG2 may cause the Fund to make further acquisitions of shares of Common Stock or other securities of the Issuer from time to time or to dispose of any or all of the Shares held by the Fund at any time.

FG2 intends to review continuously the Fund's investment in the Issuer and may in the future change its present course of action. Depending upon a variety of factors, including, without limitation, current and anticipated future trading prices of the Common Stock or other securities of the Issuer, the financial condition, results of operations and prospects of the Issuer and general economic, financial market and industry conditions, FG2 may cause the sale of all or part of the Shares held by the Fund, or may cause the purchase of additional shares of Common Stock or other securities of the Issuer, in privately negotiated transactions, as part of a cash tender offer or exchange offer, or otherwise. Any such purchases or sales may be made at any time without prior notice. Depending upon the foregoing factors or other factors not listed herein, the Reporting Persons may formulate other purposes, plans or proposals with respect to the Issuer, the Common Stock or other equity securities of the Issuer.



The foregoing is subject to change at any time, and there can be no assurance that the Reporting Persons will take any of the actions set forth above. Except as otherwise described in this Item 4, the Reporting Persons currently have no plan or proposal which relates to, or would result, in any of the events or transactions described in Item 4(a) through (j) of Schedule 13D, although the Reporting Persons reserve the right to formulate such plans or proposals in the future.

**Item 5. Interest in Securities of the Issuer**

(a and b) As of the date of this Amendment No. 4, the Reporting Persons beneficially own an aggregate of 28,422,965 shares of Common Stock, which represents approximately 9.7% of Issuer's total outstanding Common Stock, and they share voting and dispositive power over these Shares. The Reporting Persons also hold a Class F Warrant issued in a prior private placement and may be deemed to beneficially own an additional 1,009,000 shares of Common Stock, representing approximately 0.2% of Issuer's total outstanding Common Stock, that may be issued to the Fund upon the partial exercise of such Class F Warrant. As of September 21, 2009, the shares beneficially owned and deemed beneficially owned by the Reporting Persons represented approximately 9.9% of the total 294,323,191 shares of Common Stock outstanding of the Issuer (including, for this purpose, shares of Common Stock that would be issued pursuant to the partial exercise of the Class F Warrant).

(c) During the past sixty days, FG2 has, on behalf of the Fund, (i) participated in the private placement of the Units described in this Amendment No. 4, purchasing 500,000 Units from the Issuer for an aggregate purchase price of \$150,000, and (ii) on September 18, purchased 80,000 shares of Common Stock in the open market at a price of \$0.5006 per share.

(d) Other than the Fund, which directly holds the Shares, and except as set forth in this Item 5, no person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Shares.

(e) Not applicable.

**Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer**

On September 18, 2009, the Fund entered into a Securities Purchase Agreement with the Issuer, whereby the Fund received shares of Common Stock reported in this Amendment No. 4, and a Class G Warrant, exercisable for an aggregate of 500,000 shares of Common Stock at an exercise price of \$0.40 per share. The Class G Warrant is not exercisable within 60 days of the date of this Amendment No. 4 to the extent that such exercise would result in the holder thereof holding more than 9.9% of the total number of issued and outstanding shares of Common Stock. The shares reported as beneficially owned by the Reporting Persons in this Schedule 13D therefore do not include the shares of Common Stock underlying the Class G Warrant that are not issuable within 60 days of this Amendment No. 4. The Fund also holds a Class E Warrant and a Class F Warrant which, according to their terms, are not exercisable within 60 days of the date of this Amendment No. 4 to the extent that such exercise would result in the holder thereof holding more than 9.9% of the total number of issued and outstanding shares of Common Stock and as such, are not included in the shares reported as beneficially owned by the Reporting Persons in this Amendment No. 4. The form of the Class E Warrant was filed by the Issuer as Exhibit 4.1 to the Issuer's Form 8-K, filed on April 21, 2008. The form of the Class F Warrant was filed by the Issuer as Exhibit 4.1 to the Issuer's Form 8-K, filed on November 12, 2008. The form of the Class G Warrant was filed by the Issuer as Exhibit 4.1 to the Issuer's Form 8-K, filed on September 18, 2009.

By virtue of the relationship between the Reporting Persons, as described in Item 2, the Reporting Persons may be deemed to be a group under the Federal securities laws. Except as otherwise set forth in this Amendment No. 4, Mr. Passin, Mr. Sawikin, and FG2 expressly disclaim beneficial ownership of any of the shares of Common Stock beneficially owned by the Fund and the filing of this Statement shall not be construed as an admission, for the purposes of Sections 13(d) and 13(g) or under any provision of the Exchange Act or the rules promulgated thereunder or for any other purpose, that any of Mr. Passin, Mr. Sawikin, or FG2 is a beneficial owner of any such shares.

**Item 7. Material to Be Filed as Exhibits**

1. Joint Filing Agreement.

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: September 22, 2009

FG2 Advisors, LLC

/s/ James Passin

Name: James Passin

Title: Principal

Firebird Global Master Fund II, Ltd.

/s/ James Passin

Name: James Passin

Title: Director

/s/ James Passin

Name: James Passin

/s/ Harvey Sawikin

Name: Harvey Sawikin