

INTERNATIONAL ISOTOPES INC  
Form NT 10-Q  
May 17, 2011

**UNITED STATES**

**SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

**FORM 12b-25**

**NOTIFICATION OF LATE FILING**

Commission File Number 000-22923

CUSIP Number 45972C102

(Check One):

- Form 10-K    Form 20-F    Form 11-K    Form 10-Q  
 Form 10-D    Form N-SAR    Form N-CSR

For period ended:

March 31, 2011

- Transition Report on Form 10-K  
 Transition Report on Form 20-F  
 Transition Report on Form 11-K  
 Transition Report on Form 10-Q  
 Transition Report on Form N-SAR

For the transition period ended:

*Read Instruction (on back page) Before Preparing Form. Please Print or Type.*

**Nothing in this form shall be construed to imply that the Commission has verified any information contained herein.**

If the notification relates to a portion of the filing checked above, identify the Item(s) to which the notification relates:

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**PART I. REGISTRANT INFORMATION**

Full Name of Registrant:

International Isotopes Inc.

Former Name if Applicable:

Address of Principal Executive Office  
(*Street and Number*):

4137 Commerce Circle

City, State and Zip Code:

Idaho Falls, Idaho 83401

**PART II. RULES 12b-25(b) AND (c)**

If the subject report could not be filed without unreasonable effort or expense and the registrant seeks relief pursuant to Rule 12b-25(b), the following should be completed. (Check box if appropriate)

x

(a) The reason described in reasonable detail in Part III of this form could not be eliminated without unreasonable effort or expense;

(b) The subject annual report, semi-annual report, transition report on Form 10-K, Form 20-F, Form 11-K, Form N-SAR or Form N-CSR, or portion thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report or transition report on Form 10-Q or subject distribution report on Form 10-D, or portion thereof, will be filed on or before the fifth calendar day following the prescribed due date; and

(c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

### **PART III. NARRATIVE**

State below in reasonable detail the reasons why Forms 10-K, 20-F, 11-K, 10-Q, 10-D, N-SAR, N-CSR, or the transition report or portion thereof, could not be filed within the prescribed time period.

The registrant is completing and addressing certain accounting and disclosure issues to insure adequate disclosure of information to be included in its Quarterly Report on Form 10-Q for the quarter ended March 31, 2011. The registrant will file its Quarterly Report on Form 10-Q for the quarter ended March 31, 2011 within the five day extension period.

### **PART IV. OTHER INFORMATION**

(1)

Name and telephone number of person to contact in regard to this notification

Steve T. Laflin

(208)

524-5300

(name)

(area code)

(telephone number)

(2)

Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months or for such shorter period that the registrant was required to file such report(s) been filed? If the answer is no, identify report(s).

Yes  No

(3)

Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statements to be included in the subject report or portion thereof?

Yes  No

If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made.

**INTERNATIONAL ISOTOPES INC.**

(Name of Registrant as Specified in Charter)

has caused this notification to be signed on its behalf by the undersigned thereunto duly authorized.

Date:

May 17, 2011

By:

/s/ Steve T. Laflin

Steve T. Laflin

*President and Chief Executive  
Officer*

*Instruction.* The form may be signed by an executive officer of the registrant or by any other duly authorized representative. The name and title of the person signing the form shall be typed or printed beneath the signature. If the statement is signed on behalf of the registrant by an authorized representative (other than an executive officer), evidence of the representative's authority to sign on behalf of the registrant shall be filed with the form.

**ATTENTION**

Intentional misstatements or omissions of fact constitute Federal criminal violations (*see* 18 U.S.C. 1001).