

N/A

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 5.07.

Submission of Matters to a Vote of Security Holders.

On July 15, 2014, International Isotopes Inc. (the *Company*) held its 2014 Annual Meeting of Shareholders (the *Annual Meeting*) in New York, New York. At the Annual Meeting, there were 314,301,133 shares of the Company's common stock represented to vote either in person or by proxy, or approximately 85.1% of the outstanding shares of the Company, which represented a quorum. The final results of voting for each matter submitted to a vote of the shareholders at the Annual Meeting are as follows:

1.

Steve T. Laflin, Christopher Grosso and Ralph M. Richart were elected as directors of the Company, each to serve a one year term or until his respective successor has been duly elected and qualified. The voting for each director was as follows:

| Nominee | Votes For | Votes Withheld | Broker Non-Votes |
|--------------------|------------------|-----------------------|-------------------------|
| Steve T. Laflin | 188,714,071 | 1,186,035 | 124,401,027 |
| Christopher Grosso | 188,715,596 | 1,184,510 | 124,401,027 |
| Ralph M. Richart | 188,724,100 | 1,176,006 | 124,401,027 |

2.

Eide Bailly LLP was ratified as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2014, by the following vote:

| Votes For | Votes Against | Abstain | Broker Non-Votes |
|------------------|----------------------|----------------|-------------------------|
| 313,336,692 | 620,157 | 344,284 | 0 |

3.

The proposal regarding the advisory vote to approve the compensation of the Company's named executive officers was approved based on the following votes:

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| Votes For | Votes Against | Abstain | Broker Non-Votes |
|------------------|----------------------|----------------|-------------------------|
| 187,685,891 | 2,033,887 | 180,328 | 124,401,027 |

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

International Isotopes Inc.

Date: July 18, 2014

By:

/s/ Steve T. Laflin
Steve T. Laflin

President and Chief Executive Officer