FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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hours per response:

OMB Number:	3235-0287
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0.5

# STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

Name and Address of Reporting Person*     Ainscow Robert			2. Issuer Name and Ticker or Trading Symbol ASP Isotopes Inc. [ ASPI ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner				
(Last)			3. Date of Earliest Transaction (Month/Day/Year) 10/14/2025	X	Officer (give title below)	Other (specify below)		
C/O ASP ISOTOPES INC.					Interim CEO and	COO		
601 PENNSYLVANIA AVENUE NW SUITE 900		SUITE 900	4. If Amendment, Date of Original Filed (Month/Day/Year)	Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person				
(Street) WASHINGTON DC	DC	20004			Form filed by More than One	Reporting Person		
(City)	(State)	(Zip)						

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities Ad Of (D) (Instr. 3,		a) or Disposed	Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
			Code	v	Amount (A) or (D) Price			Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	10/14/2025		<b>S</b> <sup>(1)</sup>		22,500	D	\$13.599(2)	1,647,193	D	

# Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	 3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac Code (Ir 8)		Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		

### Explanation of Responses:

- 1. Represents "sell to cover" sales effected pursuant to a Rule 10b5-1 trading plan adopted by the filing person on June 9, 2025 to cover tax withholding obligations in connection with the vesting of restricted stock awards.
- 2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$12.31 to \$14.46, inclusive. The reporting person undertakes to provide ASP Isotopes Inc. (the "Company"), any stockholder of the Company, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in Footnote 2

### Remarks:

/s/ Donald Ainscow, as attorneyin-fact 10/16/2025

\*\* 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 4 (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.