

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

☒ 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.

1. Name and Address of Reporting Person* <u>Walker James John</u> (Last) (First) (Middle) <u>10 TIMES SQUARE, 30TH FLOOR</u> (Street) <u>NEW YORK NY 10018</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Nano Nuclear Energy Inc. [NNE]</u> Foreign Trading Symbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ☒ Director 10% Owner ☒ Officer (give title below) Other (specify below) <u>Chief Executive Officer</u>	
	3. Date of Earliest Transaction (Month/Day/Year) <u>10/01/2026</u>		
	4. If Amendment, Date of Original Filed (Month/Day/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) ☒ Form filed by One Reporting Person Form filed by More than One Reporting Person

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)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
<u>Restricted Stock Units⁽¹⁾</u>	<u>(1)</u>	<u>10/01/2026</u>		<u>A</u>		<u>257,790⁽¹⁾</u>	<u>(1)</u>	<u>(1)</u>	<u>Common Stock</u>	<u>257,790</u>	<u>\$0</u>	<u>0</u>	<u>D</u>	

Explanation of Responses:

1. Represents Restricted Stock Units ("RSUs") granted on October 1, 2026 ("Grant Date") under the Issuer's 2025 Equity Incentive Plan ("2025 Plan") based on a value per RSU of \$15.73, the closing price of the Issuer's common stock as reported on The Nasdaq Capital Market on October 1, 2026. Each RSU represents the right to receive one share of the Issuer's common stock, subject to the terms and conditions set forth in the award of such RSUs by the Issuer to the Reporting Person pursuant to a Restricted Stock Unit Award Agreement and the 2025 Plan. The RSUs shall vest in three equal installments, with one third (1/3) vesting on each of the first, second and third anniversary of the Grant Date, subject to the Reporting Person's continued service with the Issuer through each applicable vesting date. Any applicable fraction of an RSU that would otherwise be vested will be accumulated and will vest only when a whole RSU has accumulated.

/s/ James John Walker 10/05/2026
** 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.