

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

| | | | |
|---|--|--|---|
| 1. Name and Address of Reporting Person* <u>NAVEH OFER</u> _____ (Last) (First) (Middle) <u>C/O RAIL VISION LTD.</u> <u>15 HA'TIDHAR ST.</u> _____ (Street) <u>RA'ANANA</u> <u>4366517</u> _____ (City) (State) (Zip) | 2. Date of Event Requiring Statement (Month/Day/Year) <u>03/18/2026</u> | 3. Issuer Name and Ticker or Trading Symbol <u>Rail Vision Ltd. [RVSN]</u> | |
| | | 4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chief Financial Officer</u> | 5. If Amendment, Date of Original Filed (Month/Day/Year) _____ 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Ordinary Shares | 28,995 | D | |
| Restricted Share Units | 4,939 ⁽¹⁾⁽³⁾ | D | |
| Restricted Share Units | 8,361 ⁽²⁾⁽³⁾ | D | |

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|-----------------|---|----------------------------|--|--|---|
| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | |
| Options to Purchase Ordinary Shares | 01/04/2018 | 01/04/2028 | Ordinary Shares | 175 ⁽³⁾ | 444 | D | |
| Options to Purchase Ordinary Shares | 01/22/2020 | 01/22/2030 | Ordinary Shares | 55 ⁽³⁾ | 444 | D | |
| Options to Purchase Ordinary Shares | 05/11/2022 | 05/11/2032 | Ordinary Shares | 520 ⁽³⁾ | 444 | D | |

Explanation of Responses:

- These restricted share units vest in 6 equal installments on a quarterly basis beginning on March 31, 2026, subject to the Reporting Person's continued service.
- These restricted share units vest in 6 equal installments on a quarterly basis beginning on March 31, 2026, subject to the Reporting Person's continued service.
- To qualify for certain tax benefits under Section 102 of the Israeli Tax Ordinance, securities issued to an employee in connection with the Rail Vision Ltd. Amended Share Option Plan must be registered in the name of a trustee.

/s/ Ofer Naveh

03/18/2026

** 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 5 (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.