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

Form 6-K

Report of Foreign Private Issuer Pursuant to Rule 13a-16 or 15d-16 under the Securities Exchange Act of 1934

For the month of December 2023

Commission file number: 001-41334

RAIL VISION LTD. (Translation of registrant's name into English)

15 Ha'Tidhar St

Ra'anana, 4366517 Israel (Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F ⊠ Form 40-F □

CONTENTS

Attached hereto and incorporated herein is the Registrant's press release issued on December 11, 2023, titled "Rail Vision Delivers MainLine System to a Leading Latin America Mining Company."

The first, third, fourth and fifth paragraphs in the press release attached as Exhibit 99.1 are incorporated by reference into the Registrant's Registration Statements on Form F-3 (File Nos. 333-271068 and 333-272933) and Form S-8 (Registration No. 333-265968), filed with the Securities and Exchange Commission, to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

EXHIBIT INDEX

Exhibit No.	
99.1	Press release issued by Rail Vision Ltd. on December 11, 2023, titled "Rail Vision Delivers MainLine System to a Leading Latin America
	Mining Company."

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, thereunto duly authorized.

Rail Vision Ltd.

By: /s/ Ofer Naveh

Name: Ofer Naveh Title: Chief Financial Officer

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Date: December 11, 2023



Rail Vision Delivers MainLine System to a Leading Latin America Mining Company

Customer purchased the AI-enabled obstacle detection MainLine system in October 2023

The \$500,000 purchase included the MainLine system and related support services

Ra'anana, Israel, Dec. 11, 2023 (GLOBE NEWSWIRE) -- Rail Vision Ltd. (the "Company") (Nasdaq: RVSN), a technology company at the forefront of revolutionizing railway safety and the data-related market, completed the delivery of a MainLine system to a leading Latin American (LATAM) mining company. In addition to the delivery of the system, Rail Vision is providing supervision, guidance, and training services as part of the \$500,000 purchase order.

"Despite the prevailing challenges in Israel, we successfully delivered the MainLine system to our valued new customer in Latin America - right on schedule. This achievement is a testament to our team's resilience, commitment, and unwavering dedication to our customers," said Shahar Hania, CEO of Rail Vision. "Importantly, our work with this customer extends beyond just delivery of the MainLine system. This is an integral part of our customer-centric approach, ensuring they have the support to seamlessly integrate our systems into their operations. I believe this level of service is what sets Rail Vision apart and reinforces our reputation as a reliable partner."

The MainLine system, designed to overcome the challenges of the modern train industry, supports operators in identifying potential obstacles on the tracks, such as people, rocks, debris, and vehicles, at a distance of up to two kilometers (1.2 miles), even in challenging weather and light conditions, improving the safety of train operations, preventing collisions, and reducing downtime. Rail Vision's products combines sensitive imaging sensors with artificial intelligence and deep learning technologies to detect and classify obstacles on and near the tracks generating real-time visual and acoustic alerts for the driver and the operator's command-and-control center.

The LATAM mining company will benefit from Rail Vision's robust MainLine Advance Driver Assistance System (ADAS) which uses high-end electrooptical sensors, machine learning algorithms, and edge computing capabilities to improve safety of train operations, providing operators with accurate and timely information to make informed decisions. This comprehensive approach ensures that the MainLine system is seamlessly integrated into the customer's existing infrastructure and operations, minimizing disruption and downtime during implementation.

The global railroad market was valued at \$281 billion in 2022 and is expected to grow at a CAGR of 5.6% through 2030. The global railway signaling market was valued at \$20 billion in 2022 and projected to surpass \$31 billion by 2030.

About Rail Vision Ltd.

Rail Vision is a technology company that is seeking to revolutionize railway safety and the data-related market. The Company has developed cutting-edge, artificial intelligence based, industry-leading technology specifically designed for railways. The Company has developed its railway detection and systems to save lives, increase efficiency, and dramatically reduce expenses for the railway operators. Rail Vision believes that its technology will significantly increase railway safety around the world, while creating significant benefits and adding value to everyone who relies on the train ecosystem: from passengers using trains for transportation to companies that use railways to deliver goods and services. In addition, the company believes that its technology has the potential to advance the revolutionary concept of autonomous trains into a practical reality. For more information please visit https://www.railvision.io/

Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act and other securities laws. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates" and similar expressions or variations of such words are intended to identify forward-looking statements. For example, the Company is using forward-looking statements when it discusses the purchase order, timing of the delivery of delivery of the MainLine system, expanding to LATAM, bringing significant value to the customer by enhancing their safety and operational efficiency, and providing services to the customer. Forward-looking statements are not historical facts, and are based upon management's current expectations, beliefs and projections, many of which, by their nature, are inherently uncertain. Such expectations, beliefs and projections are expressed in good faith. However, there can be no assurance that management's expectations, beliefs and projections will be achieved, and actual results may differ materially from what is expressed in or indicated by the forward-looking statements. Forward-looking statements are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in the forward-looking statements. For a more detailed description of the risks and uncertainties affecting the Company, reference is made to the Company's reports filed from time to time with the Securities and Exchange Commission ("SEC"), including, but not limited to, the risks detailed in the Company's annual report on Form 20-F filed with the SEC on March 23, 2023. Forward-looking statements speak only as of the date the statements are made. The Company assumes no obligation to update forward-looking statements to reflect actual results, subsequent events or circumstances, changes in assumptions or changes in other factors affecting forward-looking information except to the extent required by applicable securities laws. If the Company does update one or more forward-looking statements, no inference should be drawn that the Company will make additional updates with respect thereto or with respect to other forward-looking statements. References and links to websites have been provided as a convenience, and the information contained on such websites is not incorporated by reference into this press release. Rail Vision is not responsible for the contents of third-party websites.

Contacts

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SOURCE: Rail Vision Ltd.