

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549**

FORM 6-K

**REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16 OF
THE SECURITIES EXCHANGE ACT OF 1934**

For the month of September 2021
Commission File No.: 000-30668

NOVA LTD.

(Translation of registrant's name into English)

5 David Fikes Street, Rehovot, Israel
(Address of principal executive offices)

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

Form 20-F ☒ Form 40-F ☐

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): _____

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): _____

Attached hereto and incorporated by way of reference herein is a press release issued by the Registrant and entitled: "Nova Expands Adoption of ELIPSON for Advanced Memory Devices".

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.

Date: September 30, 2021

NOVA LTD.
(Registrant)

By: */s/ Dror David*

Dror David
Chief Financial Officer

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Nova Expands Adoption of ELIPSON for Advanced Memory Devices

Rehovot, Israel – September 30, 2021 – Nova (Nasdaq: NVMI) announced today that a leading global integrated circuits (IC) manufacturer recently ordered an additional ELIPSON platform for high-volume manufacturing of advanced memory devices.

Nova's ELIPSON platform is already being utilized through the R&D stages and following its successful contribution to device development, the leading manufacturer has decided to implement the solution in its production lines. The platform was chosen due to its ability to utilize advanced Raman Spectroscopy technology to extract material properties of complex in-die structures by fast and non-destructive means.

Nova's ELIPSON solution was evaluated by now by numerous IC manufacturers in different segments and proved successfully its ability to solve a wide range of materials applications, including key applications in DRAM, Logic and NAND.

"This increasing adoption by one of the world's leading semiconductor manufacturers proves the value of Nova's innovative materials metrology portfolio," stated Mr. Eitan Oppenheim, Nova's president and CEO. "The next generation of semiconductors requires a different breed of solutions addressing new complex challenges beyond critical dimensions and Nova is well positioned to lead in this market. We are encouraged by our customers' reactions to our new Raman solution, which is supporting our strategic goal to establish the materials metrology portfolio as one of our key growth engines in 2022."

About Nova:

Nova is a leading innovator and key provider of metrology solutions for advanced process control used in semiconductor manufacturing. Nova delivers continuous innovation by providing state-of-the-art high-performance metrology solutions for effective process control throughout the semiconductor fabrication lifecycle. Nova's product portfolio, which combines high-precision hardware and cutting-edge software, provides its customers with deep insight into the development and production of the most advanced semiconductor devices. Nova's unique capability to deliver innovative X-ray and optical solutions enables its customers to improve

performance, enhance product yields and accelerate time to market. Nova acts as a partner to semiconductor manufacturers from its offices around the world. Additional information may be found at the [Nova Website Link -https://www.novami.com/](https://www.novami.com/).

Nova is traded on Nasdaq & TASE, Nasdaq ticker symbol NVMI.

Forward looking statement:

This press release contains forward-looking statements within the meaning of safe harbor provisions of the Private Securities Litigation Reform Act of 1995 relating to future events or our future performance, such as statements regarding, but not limited to, anticipated growth opportunities and projections about our business and its future revenues, expenses and profitability. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied in those forward-looking statements. Factors that may affect our results, performance, circumstances or achievements include, but are not limited to, the following: catastrophic events such as the outbreak of COVID-19; increased information technology security threats and sophisticated computer crime; foreign political and economic risks; changes in U.S. trade policies; inability to protect intellectual property; open source technology exposure; failure to compete effectively or to respond to the rapid technological changes; consolidation in our industry; difficulty to predict the length and strength of any downturn or expansion period of the market we target; factors that adversely affect the pricing and demand for our product lines; dependency on a small number of large customers; dependency on a single manufacturing facility per product line; dependency on a limited number of suppliers; lengthy sales cycle and customer delays in orders; political, economic, and military instability in Israel; risks related to our convertible notes; currency fluctuations; and quarterly fluctuations in our operating results. We cannot guarantee future results, levels of activity, performance or achievements. The matters discussed in this press release also involve risks and uncertainties summarized under the heading “Risk Factors” in Nova’s Annual Report on Form 20-F for the year ended December 31, 2020 filed with the Securities and Exchange Commission on March 1, 2021. These factors are updated from time to time through the filing of reports and registration statements with the Securities and Exchange Commission. Nova Ltd. does not assume any obligation to update the forward-looking information contained in this press release.