NOVA MEASURING INSTRUMENTS LTD Form 6-K January 09, 2012

## 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

January 9, 2012

Commission File No.: 000-30688

NOVA MEASURING INSTRUMENTS LTD. (Translation of registrant's name into English)

Building 22 Weizmann Science Park, Rehovot P.O.B 266 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 S 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): \_\_\_\_\_

Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes £ No S

Attached hereto and incorporated by way of reference herein are the slide presentations to be presented at the 14th Annual Needham Growth Conference in New York on January 10, 2012.

#### 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.

# Edgar Filing: NOVA MEASURING INSTRUMENTS LTD - Form 6-K

NOVA MEASURING INSTRUMENTS LTD. (Registrant)

Date: January 9, 2012

By: /s/ Dror David

Dror David Chief Financial Officer Investors Presentation Gabi Seligsohn, President & CEO Dror David, CFO January 2012 Nova confidential & proprietary information

Cautionary Statement Regarding Forward-Looking Statements

1

This presentation includes statements that constitute 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 financial performance, and involve known and unknown risks, uncertainties and other factors that may cause our actual results, level

of activity, performance or achievements to be materially different than expressed or implied by these forward looking statements. You should not place undue reliance on forward-looking statements since they involve known and unknown

risks, uncertainties and other factors which are in some cases beyond our control and which could materially affect actual

results, level of activity, performance or achievements. These risks and other factors include but are not limited to: our dependency on two product lines; the highly cyclical nature of the markets we target; our inability to reduce spending during a slowdown in the semiconductor industry; our ability to respond effectively on a timely basis to rapid technological

changes; our dependency on OEM suppliers; our ability to retain our competitive position despite the ongoing consolidation in our industry; risks associated with our dependence on a single manufacturing facility; our ability to expand

our manufacturing capacity or marketing efforts to support our future growth; our dependency on a small number of large

customers and small number of suppliers; our dependency on our key employees; risks related to changes in our order backlog; risks related to the financial, political and environmental instabilities in Asia; risks related to our intellectual property; changes in customer demands for our products; new product offerings from our competitors; changes in or an

inability to execute our business strategy; unanticipated manufacturing or supply problems; changes in tax requirements;

changes in customer demand for our products; risks related to currency fluctuations and risks related to our operations in

Israel.

The matters discussed in this presentation also involve risks and uncertainties summarized under the heading "Risk Factors"

in Nova's most recent Annual Report on Form 20-F filed with the Securities and Exchange Commission. These factors are

updated from time to time through the filing of reports and registration statements with the Securities and Exchange Commission.

Any forward-looking statements contained in this presentation are made as of the presentation date and Nova Measuring

Instruments Ltd. is under no obligation to revise or update these forward-looking statements.

Certain of the information contained herein concerning economic trends and performance is based upon or derived from

information provided by third party consultants and other industry sources. We have not independently verified and cannot

assure the accuracy of any data obtained by or from these sources.

Nova confidential & proprietary information Business Highlights

2

- Pure player in the semiconductors optical metrology market,

enjoying strong business fundamentals:

- Nova is exposed to the highest growing semiconductor applications

- Optical Metrology continuously outperforms the industry

- Nova is entering the emerging market of 3D interconnect

- Strong balance sheet with over \$80M in cash reserves available

to support Company's growth plans

- Strong profit growth and cash generation enables reinvestment

to prepare for next phase of growth

Nova confidential & proprietary information Company Overview

- 3
- Founded in 1993 IPO in 2000 (NASDAQ NVMI)
- Headquarters: Rehovot, Israel
- Global presence:
- Asia Pacific Taiwan, Korea, Singapore, China
- United States, Japan and Europe
- Employees: 350
- Active installed base >1000 systems
- Listed on NASDAQ and Tel-Aviv Stock Exchange

Nova confidential & proprietary information Optical CD - Leading and emerging technology 4 Semiconductor Wafer Cross-Section View Using Electron Microscope Same View Using Optical CD Scatterometry View Integrated Circuit Die Nova confidential & proprietary information Nova's Products Portfolio 5 Starting 2012 3D-IC NEXT i500 IM SA NEXT T500 T600 SW NOVAMars SW Packages Multiple products across technologies Process control for current and future technologies Nova confidential & proprietary information Well positioned in most critical segments 6 7 Memory: NAND +5% DRAM +3% Foundry: -8% Est. 12/11 WFE Growth: Source: Average Barclays Cap, SEMI, Needham Nova confidential & proprietary information Strong SA position at multiple leading accounts 7 Providing an excellent platform for further growth 2005 2007 At Year End # Standalone Customers 2 5 7 2011 14 2009 Nova Optical CD Differentiation Cluster Best Reliability Best Solution Quality Highest Throughput Best Tool-to-Tool Matching Shortest Time to Solution

Nova confidential & proprietary information Nova's Addressable Market Expansion Within the Fab 8 Process control needs expand as geometries shrink Wafer In Wafer Out 2011 Opportunity (<45nm) \$80-\$100M Million Opportunity Implant Litho Etch CVD/EP CMP 2009 Opportunity (<65nm) \$30-\$40M Million Opportunity Implant Litho Etch CVD/EP CMP Notes: Company data. Based on Foundry with 100,000 wafer starts per month (updated 9/2011)

Nova confidential & proprietary information Unification of the Metrology Market 9 Expecting a further SAM increase of ~\$250M for 3D/IC starting 2013\* \$284M \_ \_ Expansion of Nova's Addressable Market Thin Film Metrology Copper Metrology CD Metrology Source: Gartner, Yole Research and Company Estimates \*Numbers reference expected metrology and inspection SAM for 3D/IC Becoming a Unified Metrology Market -All Addressable by Optical

Nova confidential & proprietary information Optical CD - Growing Adoption Rate 10 Source: Gartner Nova confidential & proprietary information Main achievements during 2011

11

- Successful launch of Next Gen for Integrated and stand alone metrology:
- NovaT600 selected for 11nm/14nm/20nm at multiple foundries
- Nova i500 selected for 11nm/14nm/20nm/30nm at multiple memory and foundries
- New product introduction:
- 3D/IC product going through successful beta at leading foundry
- Several new customer interactions should lead to initial revenues H2/12
- Financial results well within our long term profitability model
- ->70% of revenues coming from <30nm design rules
- Significant free cash flow enables investments for further growth

Business, Technology, Market share

Will continue to enhance our development and support capabilities for an expanding SAM

Nova confidential & proprietary information Investments focused on growth 12

Track record of aligning R&D spending with opportunities ahead

\* 2011 Estimated Revs. based on Q4 11 Guidance: Revenues of \$16M-\$19M and net profitability of 1%-8%.

Industry Review - 2011 and Beyond 13 Nova confidential & proprietary information Excellent Exposure to growing markets

14 Tablet Semiconductor % of Tablet Content BOM Р NAND Flash Memory 7% Р Mobile DDR DRAM 7% App Processor 5% Р Baseband / RF 4% Р Р Wi-Fi / BT 2% Power Management Р 2% Accelerometer Р 1% Memory Controller 1% Р Touch Controller 1% Р GPS <1% Р Touch Screen Driver <1% Р Audio Codec <1% Р Expected Contribution to IC growth 2012 Source: Gartner Q4/11

Nova confidential & proprietary information Mobile revolution 15 Continuation depends on new designs Source: Intel, Sandisk, KPCB Nova confidential & proprietary information Mixed expectations for WFE in 2012 16 WFE 2012 forecast - different baseline and different expectations Source: Barclays Capital, 1/12 Source: Gartner Dec 11 Source: Needham Average expectation: -13% Nova 2012 and beyond

Nova confidential & proprietary information

Strategy for taking Nova to the next level

- Nova's strong end market position coupled with excellent technological collaboration

with leading OEM's, offer significant opportunities for further growth:

- Short term:
- 28nm ramp up at foundries and 20nm at NAND production sites adding Optical CD control steps
- Transition to 3D gates (foundry) and vertical gates (memory) ONLY Optical CD can measure
  Mid term:
- Critical etch steps requiring closer monitoring leading to enhanced transition to IM for etch
- The move to 3D interconnect by all leading customers expected to ramp up during 2013
- Long term:
- Transition to 450mm by 6 leading customers expected to take place 2015 onwards (pilot lines EO 2013)
- IM use expected to significantly extend given wafer cost and process complexity
- Focus in 2012 will be on maturing existing platforms, enhancing infrastructure and
- customer technology partnerships via field support and CTO group

Continue to focus on the leading edge

Nova will continue its strategy of investing in creating future growth opportunities

Nova confidential & proprietary information 3D Technology Driving Nova Application Growth 19 The need: Low power high performance 3D Devices 3D IC Integration Single Chip Multi-Chip Packaging with TSV 2010 2012 onwards Planar Transistor 3D Transistor Nova introducing novel TSV metrology solution in time for transition to production Requires significant increase in number of Etch and CMP layers Nova confidential & proprietary information Leveraging Nova's Position to expand addressable market 20 New Process Steps **3D** Interconnect Performance & bandwidth Form Factor & Power Consumption SOC Horizontal Shrink "More Moore" **3D** Vertical Integration "More Than Moore" 3D Gates enable: Run almost 50% faster with lower voltage and consume 50% less energy 3D IC enables: 15% footprint reduction, 30% Thickness reduction, 15%-30% less Power **Existing Process Steps** Increased complexity Significantly more manufacturing steps Implant Litho Etch CVD/EP CMP

Nova confidential & proprietary information

3D IC main process steps

21

- The transition to 3D IC depends on several factors:
- Making the process production worthy
- Low Cost of manufacturing no more than \$100 cost added per wafer
- Standards to enable alignment of chips coming for different manufacturers
- As a result:
- 3D IC production ramp is expected in 2013
- Metrology and Inspection Market expected to be ~\$250M starting 2013

Adding several process steps requiring close monitoring

Rely on existing customers to expand addressable market - all actively moving in this direction Filling

Etching

Bond ,Thin &

Reveal

Detach + Align

Detach + Align

Nova confidential & proprietary information Financial Model 22 Long-term tax rate - ~15%. \* 2011E - based on Q4/11 guidance

Nova confidential & proprietary information Ability to continue growth is well founded 23 Mid cycle behavior Well positioned where money will be spent Turning penetrations into multi-tool accounts Outpacing industry growth rate Expanding Fab footprint Litho Etch CVD/EP CMP Focus on 3D-IC market 450mm New products and features Expanded Customer Base Industry Accelerating Op CD Adoption New strategic Initiatives Further Growth