

NETLIST INC
Form 424B5
September 16, 2016

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Filed Pursuant to Rule 424(b)(5)
Registration No. 333-199446

PROSPECTUS SUPPLEMENT

(to the prospectus dated September 2, 2016)

NETLIST, INC.

Shares of Common Stock

We are selling 8,000,000 shares of our common stock. Our common stock is listed on The NASDAQ Capital Market under the symbol "NLST." On September 15, 2016, the last reported sales price of our common stock on The NASDAQ Capital Market was \$1.37 per share.

Investing in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should review carefully the risks and uncertainties described under the heading "Risk Factors" on page S-11 of this prospectus supplement. This prospectus supplement should be read in conjunction with and may not be delivered or utilized without the prospectus dated September 2, 2016.

	Per Share	Total
Public offering price	\$ 1.25	\$10,000,000
Underwriting discounts	\$0.0844(1)	\$ 675,200
Proceeds to Netlist (before expenses)	\$1.1656(1)	\$ 9,324,800

(1) Rounded to four decimal places.

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We have granted the underwriters a 30 day option to purchase up to an additional 1,200,000 shares of common stock from us at the public offering price, less the underwriting discount, to cover over-allotments, if any.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement or the accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

Joint Book-Runners

**B.
Riley & Co., LLC**

**Craig-Hallum Capital
Group**

Co-Manager

The Benchmark Company

The date of this prospectus supplement is September 15, 2016.

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No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus supplement or the accompanying prospectus. We, the Company and the underwriters take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. You must not rely on any unauthorized information or representations. This prospectus supplement and the accompanying prospectus are an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this prospectus supplement and the accompanying prospectus is current only as of their respective dates.

Persons who come into possession of this prospectus supplement and the accompanying prospectus in jurisdictions outside the United States are required to inform themselves about and to observe any restrictions as to this offering and the distribution of this prospectus supplement, the accompanying prospectus and any such free writing prospectus applicable to that jurisdiction.

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ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying base prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, utilizing a "shelf" registration process. Each time we sell securities under the accompanying base prospectus, we will provide a prospectus supplement that will contain specific information about the terms of that offering, including the price, the amount of securities being offered and the plan of distribution. The shelf registration statement was filed with the SEC on August 19, 2016, and was declared effective by the SEC on September 2, 2016. This prospectus supplement describes the specific details regarding this offering and may add, update or change information contained in the accompanying base prospectus. The accompanying base prospectus provides general information about us, some of which, such as the section entitled "Plan of Distribution," may not apply to this offering. Generally, when we refer to this "prospectus," we are referring to both documents combined.

If information in this prospectus supplement is inconsistent with the accompanying base prospectus or the information incorporated by reference, you should rely on this prospectus supplement. This prospectus supplement, together with the base prospectus and the documents incorporated by reference into this prospectus supplement and the base prospectus, includes all material information relating to this offering. We have not authorized anyone to provide you with different or additional information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not, and the underwriters are not, making an offer to sell or soliciting an offer to buy our securities in any jurisdiction in which an offer or solicitation is not authorized or in which the person making that offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation. You should assume that the information appearing in this prospectus supplement, the base prospectus, and the documents incorporated by reference in this prospectus supplement and the base prospectus is accurate only as of the respective dates of those documents. Our business, financial condition, results of operations and prospects may have changed since those dates. **You should carefully read this prospectus supplement, the base prospectus, the information and documents incorporated herein by reference and the additional information under the heading "Where You Can Find More Information" before making an investment decision.**

We are offering to sell, and seeking offers to buy, shares of common stock only in jurisdictions where offers and sales are permitted. The distribution of this prospectus and the offering of the common stock in certain jurisdictions may be restricted by law. Persons outside the United States who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of the common stock and the distribution of this prospectus outside the United States. This prospectus does not constitute, and may not be used in connection with, an offer to sell, or a solicitation of an offer to buy, any securities offered by this prospectus by any person in any jurisdiction in which it is unlawful for such person to make such an offer or solicitation.

We further note that the representations, warranties and covenants made by us in any agreement that is filed as an exhibit to any document that is incorporated by reference into the accompanying prospectus were made solely for the benefit of the parties to such agreement, including, in some cases, for the purpose of allocating risk among the parties to such agreements, and should not be deemed to be a representation, warranty or covenant to you. Moreover, such representations, warranties or covenants were accurate only as of the date when made. Accordingly, such representations, warranties and covenants should not be relied on as accurately representing the current state of our affairs.

Unless otherwise mentioned or unless the context requires otherwise, all references in this prospectus to "Netlist," "the Company," "we," "us" and "our" refer to Netlist, Inc., a Delaware corporation, and its subsidiaries on a consolidated basis.

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Basis of Presentation

We report our results of operations on a 52- or 53-week fiscal year ending on the Saturday closest to December 31, with each fiscal quarter generally divided into three periods consisting of two four-week periods and one five-week period. Our last three completed fiscal years ended on December 28, 2013, December 27, 2014 and January 2, 2016.

Trademarks and Trade Names

This prospectus supplement includes our trademarks and service marks, EXPRESSvault®, NVvault®, HyperCloud®, HybriDIMM , and PreSight , which are protected under applicable intellectual property laws and are the property of the Company. This prospectus supplement also contains trademarks, service marks, trade names and copyrights of other companies, which are the property of their respective owners. Solely for convenience, trademarks and trade names referred to in this prospectus supplement may appear without the ® or symbols. We do not intend our use or display of other parties' trademarks, trade names or service marks to imply, and such use or display should not be construed to imply, a relationship with, or endorsement or sponsorship of us by, these other parties.

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SPECIAL CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement, the accompanying base prospectus, the documents we have filed with the SEC that are incorporated herein by reference includes and incorporates by reference "forward-looking statements." We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. Words such as "anticipate," "estimate," "expect," "project," "intend," "may," "plan," "predict," "believe," "should" and similar words or expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include: our anticipated financial results for the quarter ending October 1, 2016; our plans relating to our intellectual property and patent strategy, including strategy for monetizing, expanding, licensing and defending our patent portfolio; our expectations with respect to strategic partners, including the relationship with Samsung and potential new commercial licensing agreements; our expectations regarding our liquidity and capital resources, including cash flow, sufficiency of cash resources, efforts to reduce expenses and potential future financings; our beliefs regarding the market and demand for our products; and any other statements, other than statements of historical facts, included or incorporated in this prospectus regarding our strategy, future operations, financial position, future revenues, projected costs, prospects, plans and objectives of management. All forward-looking statements reflect the present expectation of future events of our management and are subject to known and unknown risks, uncertainties and assumptions that could cause actual results to differ materially from those described in any forward-looking statements. These risks and uncertainties include, among others, changes in and uncertainty of customer acceptance of and demand for our existing products and technologies and products and technologies under development; risks associated with the concentration of product sales among a limited number of customers; the success of product, licensing and joint development partnerships; continuing development, qualification and volume production of HybriDIMM, EXPRESSvault and NVvault; the timing and magnitude of any continued decrease in our sales; our ability to leverage our NVvault and EXPRESSvault technology into a more diverse customer base; our need to raise additional capital and our ability to obtain financing when necessary; the rapidly-changing nature of technology in our industry; risks associated with intellectual property, including patent infringement litigation against us as well as the costs and unpredictability of litigation over infringement of our intellectual property and the possibility of our patents being reexamined or reviewed by the U.S. Patent and Trademark Office ("USPTO") and Patent Trial and Appeal Board ("PTAB"); volatility in the pricing of components of our products; changes in and uncertainty of customer acceptance of, and demand for, our existing products and products under development, including uncertainty of and/or delays in product orders and product qualifications; delays in our and our customers' product releases and development; introductions of new products by competitors; changes in end-user demand for technology solutions; our ability to attract and retain skilled personnel; our reliance on suppliers of critical components and vendors in the supply chain; fluctuations in the market price of critical components; evolving industry standards; the political and regulatory environment in the People's Republic of China ("PRC"); and general economic and market conditions. Given these risks, uncertainties and other important factors, you should not place undue reliance on these forward-looking statements. You should carefully read both this prospectus, the applicable prospectus supplement and any related free writing prospectus, together with the information incorporated herein by reference as described under the heading "Where You Can Find More Information," completely and with the understanding that our actual future results may be materially different from what we expect.

These forward-looking statements represent our estimates and assumptions only as of the date made. Any such forward-looking statements are not guarantees of future performance and actual results, developments and business decisions may differ from those contemplated by such forward-looking statements. We undertake no duty to update these forward-looking statements after the date of this prospectus, except as required by law, even though our situation may change in the future. You should carefully consider other information set forth in reports or other documents that we file with the Securities and Exchange Commission. We qualify all of our forward-looking statements by these cautionary statements.

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PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus supplement, the accompanying base prospectus and the documents incorporated by reference. This summary does not contain all of the information that you should consider before deciding to invest in our securities. You should read this entire prospectus supplement and the accompanying base prospectus carefully, including the section entitled "Risk Factors" beginning on page S-11 and our consolidated financial statements and the related notes and the other information incorporated by reference into this prospectus supplement and the accompanying prospectus before making an investment decision.

Our Company

We are a leading provider of high-performance modular memory subsystems serving diverse industries that require superior memory performance to empower critical business decisions. We have a long history of being the first to market with disruptive new products such as the first load reduced dual in-line memory modules ("LRDIMM") based on our distributed buffer architecture which has been adopted by the industry for DDR4 LRDIMM. We were also the first to bring NAND flash memory ("NAND flash") to the memory channel with our NVvault non-volatile dual in-line memory modules ("NVDIMM") using software-intensive controllers and merging dynamic random access memory integrated circuits ("DRAM") and Flash to solve data bottleneck and data retention challenges encountered in high-performance computing environments. We recently introduced a new generation of storage class memory products called HybriDIMM to address the growing need for real-time analytics in Big Data applications and in-memory databases. In August 2016, we demonstrated samples of HybriDIMM together with an ecosystem of partners, including Samsung, Integrated Device Technology, Carnegie Mellon and Xilinx. We plan to sample HybriDIMM with alpha customers during the fourth quarter of 2016 and expect volume production in the second quarter of 2017. Our innovative product portfolio has generated over \$700 million of revenue since our inception, with over 75% representing sales of custom, high-performance memory products delivered to global OEMs such as Dell, HP, IBM, Apple and Lenovo. Due to the ground-breaking product development of our engineering teams, we have built a robust portfolio of over 100 issued and pending U.S. and foreign patents, many seminal, in the areas of hybrid memory, storage class memory, rank multiplication and load reduction.

In November 2015, we entered into a Joint Development and License Agreement ("JDLA") with Samsung, pursuant to which we and Samsung agreed to work together to jointly develop a standardized product interface for NVDIMM-P storage class memory modules in order to facilitate broad industry adoption of this new technology. The JDLA also includes access to competitively priced DRAM and NAND flash raw materials, a comprehensive license to Samsung's patent portfolio with a corresponding license that we have granted to Samsung to our patent portfolio, and an important strategic partner that can facilitate bringing our HybriDIMM technology to market. Both parties may enter into an additional agreement in the future for Samsung to be granted commercial license for our HybriDIMM technology. The JDLA also includes a right of first refusal wherein we will provide Samsung the right to acquire our HybriDIMM technology in a separate, subsequent transaction before the Company offers the technology to a third party. We also received \$15.0 million of capital from an affiliate of Samsung Venture Investment Co. and an \$8.0 million nonrecurring engineering fee ("NRE") from Samsung Electronics for the joint development.

Since the Company's inception in 2000, we have dedicated substantial resources to the development of technology innovations essential to our business. Our early pioneering work in these areas has been broadly adopted in industry standard LRDIMM and in NVDIMM. We estimate that these two technologies collectively represent an approximate cumulative \$55 billion in global sales through 2021. Our objective is to continue to innovate in our field and to monetize our intellectual

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property through a combination of product sales, licensing and royalty agreements, and other revenue opportunities.

On September 1, 2016, we took action to safeguard our innovations by filing legal proceedings for patent infringement against SK hynix Inc., a South Korean memory semiconductor supplier ("SK hynix"), in the U.S. International Trade Commission ("ITC") and the U.S. District Court for the Central District of California. We undertook these actions only after months of extensive and prolonged efforts to reach a fair and equitable resolution without litigation. We are seeking an exclusion order in the ITC that directs U.S. Customs and Border Protection to stop infringing SK hynix RDIMM and LRDIMM products from entering the United States. ITC investigations proceed on an expedited basis, typically advancing to trial within a year of the filing of the complaint and a final decision issued a few months later. In the district court proceedings, we are primarily seeking damages, but we expect this action will remain stayed until the ITC reaches conclusion. The six patents that were asserted cover key features of RDIMM and LRDIMM which we believe are strategic product lines for SK hynix that together account for a significant portion of SK hynix's total revenue and profits.

Our total revenue was \$19.2 million and \$8.0 million for the fiscal years ended December 27, 2014 and January 2, 2016, respectively, and our revenue was \$4.6 million (\$1.2 million of product revenue and \$3.4 million of NRE from Samsung) and \$6.9 million (\$3.5 million of product revenue and \$3.4 million of NRE from Samsung) for the quarters ended April 2, 2016 and July 2, 2016, respectively. As of July 2, 2016, we have fully recognized these NRE. We expect that our product revenue for the third quarter ending October 1, 2016 will be in the range between \$3.0 million and \$5.0 million. Our actual results may differ materially from these estimates due to the completion of our financial closing procedures, final adjustments and other developments that may arise between now and the time the financial results for our third quarter are finalized.

Industry Overview

The global high-performance memory module market is driven by increasing demand from data center and enterprise storage applications for improved input/output (I/O) performance, lower latency and data retention capabilities in the event of unexpected system failure. Global data center IP traffic is expected to reach 40 zettabytes of data in 2020, corresponding to 40 billion terabyte storage drives of data, up from 3.4 zettabytes in 2014. The proliferation of mobile devices, social media platforms and cloud-based software applications is resulting in the creation of unprecedented amounts of unstructured data. In order to manage and analyze this data, new computing and memory architectures are under development by the industry.

In high-performance computing environments, such as cloud-based computing and Big Data applications, a system's overall processing speed is limited to the central processing unit's ("CPU") ability to access data cached in memory. Memory speeds have failed to keep pace with improvements in CPU processing speeds, resulting in buffering delays encountered in highly intensive compute environments. To mitigate challenges arising from differences in CPU and memory clock speeds, data center operators have increased the number of servers in their facilities as well as the memory content in each server. Memory capacity is expanded through the use of DIMMs generally incorporating up to 16 GB of DRAM per module today, moving up to 64 GB of DRAM per module and beyond. Netlist's technology enables an intelligent controller to be integrated onto the DIMM, in order to manage the rapid flow of data between the CPU and memory. The number of DIMMs incorporated into a server increases in correlation with the number of processing cores in the CPU.

DDR4 DIMMs incorporate our load reduction technology to mitigate the trade-off between operating speed and memory capacity inherent in prior generations of server DIMM. These load-reduced DIMMs, or LRDIMMs, are now the pre-dominant memory technology used in high-capacity servers and high-performance computing clusters. According to De Dios & Associates, the

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LRDIMM market is expected to grow from \$1.7 billion in 2016 to \$9.4 billion in 2021, representing a 40% compound annual growth rate ("CAGR"). Based upon market forecasts from Objective Analysis, we expect the Storage Class Memory and NVDIMM markets to grow from \$600 million in 2017 to \$6.2 billion in 2021, representing a CAGR of 79%. We believe we can address these markets through product sales and IP licenses.

Technical challenges arising from the production of DRAM using leading edge semiconductor manufacturing processes is limiting the material's long-term viability as the high-speed memory of choice in demanding compute environments. Conversely, NAND flash, while characterized by lower access speeds, is scaling down in cost and scaling up in density at a significantly better rate than DRAM. This has led the industry to explore alternative computer architectures and new memory materials capable of bridging DRAM's superior access speed with NAND's lower cost and higher densities. We expect that memory subsystems relying on intelligent controller technology to leverage NAND will most effectively address the industry's growing need for high-speed data management and analytics.

Our Solutions

Storage Class Memory

Using an industry standard DDR4 LRDIMM interface, our HybriDIMM is the industry's first storage class product capable of operating in existing Intel x86 servers without BIOS and hardware changes. HybriDIMM unifies DRAM and NAND in a plug-and-play module delivering terabyte storage capacities operating at nanosecond memory speeds. HybriDIMM's unique architecture combines an on-DIMM co-processor with Netlist's PreSight predictive software-defined data management algorithm. HybriDIMM dramatically improves application performance by reducing data access latency by up to 1,000 times versus the fastest existing storage solution and provides up to an 80% cost reduction compared to the highest existing memory density for in-memory applications. HybriDIMM's feature-set encompasses the NVDIMM functionalities adopted by the industry.

HybriDIMM is currently the industry's only storage class memory product concurrently presenting block storage and byte addressable persistent memory, while running at near DRAM speeds. We believe that the market for unified memory-storage products such as HybriDIMM will grow to approximately \$8 billion by 2021. HybriDIMM is planned for volume production in the second quarter of 2017 after sampling with customers.

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Nonvolatile Memory

Our Vault product line enables customers to accelerate data running through their servers as well as reliably protect enterprise-level cache data by providing near instantaneous recovery in the event of a system failure or power outage. Listed below is a summary of our nonvolatile memory offering.

EXPRESSvault PCIe (EV3). EV3 is a plug-and-play memory card for server appliances which provides data acceleration and data protection. It is compatible with industry standard PCIe 3.0 x8 lane slots, eliminating the need for proprietary hardware and extra motherboard space. EXPRESSvault ships with Linux and Windows drivers compatible with standard PCIe peripheral command sets.

NVvault DDR3 NVDIMM (NV3). NV3 provides data acceleration and data protection in a JEDEC standard DD3 interface for integration into industry-standard server and storage solutions. NV3 incorporates our patented Vault cache-to-flash controller and operates in conjunction with general purpose CPUs, RAID adapters and other devices.

NVvault DDR4 NVDIMM (NV4). NV4 relies on the NVDIMM-N interface specification to provide data acceleration and data protection in a JEDEC standard DDR4 interface. We have demonstrated NV4 to deliver a 200% performance improvement in transaction-based workloads compared to PCIe NAND devices.

Specialty DIMMs and Embedded Flash

The remainder of our product revenues is primarily from OEM sales of specialty memory modules and flash-based products, the majority of which are utilized in data center and industrial applications. When developing custom modules for an OEM system launch, we engage with our OEM customers from the earliest stages of new product definition, providing us valuable insight into their full range of system architecture and performance requirements. This close collaboration has also allowed us to develop a significant level of systems expertise. We leverage a portfolio of proprietary technologies and design techniques, including efficient planar design, alternative packaging techniques and custom semiconductor logic, to deliver memory subsystems with persistence, high density, small form factor, high signal integrity, attractive thermal characteristics, reduced power consumption and low cost per bit.

Key Competitive Strengths

We believe we have established a leadership position in our target markets and a reputation for innovative and valuable memory solutions. We believe that the following strengths differentiate us from competitors and drive our success:

Market leadership. We have a history of being first to market with innovative memory solutions. Since inception, we have invested more than \$60 million in research and development projects which has enabled us to remain on the cutting edge of innovation in our sector. Our NVvault product line was the industry's first to offer both DRAM and NAND flash in a standard form factor, preceding the industry's adoption of NVDIMMs. Additionally, we invented foundational load-reduction and buffering technology that became widely adopted as industry standard in the DDR4 generation of LRDIMMs. Most recently, we were first to demonstrate a storage class memory product that is both block and byte addressable and with plug-and-play functionality in our HybriDIMM product.

Deep hybrid memory technical expertise. We have a portfolio of proprietary technologies and design techniques and have assembled an engineering team with expertise in system memory, subsystem design and memory software. Our technology competencies include logic controller design, proprietary printed circuit boards ("PCB") design, very low profile design and thermal management expertise.

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Joint development and license agreement with Samsung. Our strategic partnership with Samsung for storage class memory technology confers a number of advantages to us, including access to Samsung's technical capability in memory, a comprehensive license to Samsung's patent portfolio and competitively priced DRAM and NAND flash semiconductors, as well as capital investment in the form of convertible notes that do not require any capital or interest payment until the notes mature at the end of 2021. Our agreement with Samsung calls for potential marketing collaboration and for the exchange of potential monetary consideration as progress is made towards commercialization of our storage class memory product.

Strong collection of battle-tested LRDIMM and hybrid memory patents. We believe we own the largest portfolio of patents pertaining to high-performance server memory, hybrid memory and storage class memory that have withstood legal challenges. We believe our patent portfolio covers a range of high-volume products in the marketplace today which incorporate and practice our pioneering work in the field of high performance memory and hybrid memory.

State of the art manufacturing capacity. Our advanced engineering and design capabilities, combined with our in-house manufacturing processes, allow us to assemble our memory subsystems reliably with lower cost and in high volume. Our advanced, customized manufacturing facilities are capable of surface mount assembly, subsystem testing, system-level burn-in testing, programming, marking, labeling and packaging. Manufacturing cycle times for our products are typically one week or less, from receipt of order.

Experienced management and engineering teams. We have a strong management team which includes highly experienced industry executives with relevant sector expertise.

Growth Strategy

Our objective is to be the leading supplier of storage class memory and other high-performance hybrid memory solutions. Key aspects of our growth strategy include:

Invest to extend scope of intellectual property portfolio in hybrid memory technology space. We intend to continue investing in our intellectual property portfolio to further establish ourselves as an innovator in the high-performance memory subsystem market and to identify emerging customer requirements for future generations of products.

Focus on fast growing segments within our target markets. We intend to capitalize on our early lead in the storage class memory market by commercializing HybridDIMM and pursuing production orders from our customers. We intend to leverage our partnership with Samsung to penetrate new customer accounts.

Increase our revenue growth of our base hybrid memory products. We intend to drive adoption of our portfolio of nonvolatile memory subsystems, EV3 and NV4 through collaboration with ecosystem partners.

Actively pursue intellectual property monetization opportunities. We intend to defend our patent portfolio and aggressively pursue monetization avenues, including licensing and royalty agreements, and various enforcement actions available to us.

Corporate Information

We commenced operations in September 2000. Our principal executive offices are located at 175 Technology Drive, Suite 150, Irvine, California 92618 and our telephone number at that address is (949) 435-0025. Our website address is <http://www.netlist.com>. This reference to our website is an inactive textual reference only and the information contained on our website is not incorporated by reference into, and does not form any part of, this prospectus supplement.

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Risk Factors

Our business is subject to substantial risk. Please carefully consider the "Risk Factors" beginning on page S-11 of this prospectus supplement and other information included and incorporated by reference in this prospectus supplement, for a discussion of the factors you should consider carefully before deciding to purchase the securities offered by this prospectus supplement. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also impair our business operations. You should be able to bear a complete loss of your investment.

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THE OFFERING

The following is a brief summary of some of the terms of the offering and is qualified in its entirety by reference to the more detailed information appearing elsewhere in this prospectus supplement and the accompanying base prospectus. For a more complete description of the terms of our common stock, see the "Description of Our Capital Stock" section in the accompanying base prospectus.

Securities offered by us in this offering	8,000,000 shares of our common stock, par value \$0.001 per share.
Offering Price	\$1.25 per share of common stock.
Common Stock Outstanding before this offering	51,751,857 shares.
Over-allotment option	We have granted to the underwriter an option, which is exercisable within 30 days from the date of this prospectus, to purchase up to 1,200,000 additional shares of our common stock to cover over-allotments, if any.
Use of proceeds	We intend to use the net proceeds from this offering to accelerate our patent monetization campaign, to commercialize HybriDIMM and for general corporate purposes. See "Use of Proceeds" on page S-36.
Risk Factors	See "Risk Factors" on page S-11 and other information included in this prospectus supplement, or incorporated herein by reference, for a discussion of factors you should carefully consider before deciding to invest in our common stock.
NASDAQ Capital Market Symbol	NLST

The number of shares of our common stock outstanding immediately before this offering is as of September 15, 2016 and excludes:

8,963,051 shares of common stock issuable upon exercise of options outstanding as of September 15, 2016, of which approximately 4,977,610 shares are exercisable;

167,189 shares of common stock available for future grants under our stock option plans as of September 15, 2016, which amount is subject to annual increases pursuant to the terms of our Amended and Restated 2006 Equity Incentive Plan;

3,984,184 shares of common stock issuable upon exercise of warrants outstanding as of September 15, 2016, 60,000 of which are exercisable at \$0.45 per share, 1,000,000 of which are exercisable at \$0.47 per share, 300,000 of which are exercisable at \$0.64 per share, 1,525,282 of which are exercisable at \$0.89 per share and 1,098,902 of which are exercisable at \$1.00 per share (all of which are currently exercisable);

2,000,000 shares of common stock issuable upon exercise of a warrant outstanding as of September 15, 2016 which is exercisable at \$0.30 per share upon the redemption by the Company of the Note (as defined below) pursuant to the terms thereof;

12,197,918 shares of common stock issuable as of September 15, 2016 upon conversion of the outstanding principal and accrued interest under the Samsung Venture Investment Co. ("SVIC") Senior Secured Convertible Promissory Note (the "Note") at a conversion price of \$1.25 per share, and

shares of common stock issuable if the underwriter exercises its option to purchase additional shares of common stock.

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RISK FACTORS

Investing in our common stock involves a high degree of risk. Before purchasing our common stock, you should carefully consider each of the following risk factors as well as the other information contained in this prospectus supplement and the accompanying base prospectus and the documents incorporated by reference, including our consolidated financial statements and the related notes. Each of these risk factors, either alone or taken together, could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our common stock. The risks described below are not the only ones we face. Additional risks of which we are not presently aware or that we currently believe are immaterial which may also impair our business operations and financial position. If any of the events described below were to occur, our financial condition, our ability to access capital resources, our results of operations and/or our future growth prospects could be materially and adversely affected and the market price of our common stock could decline. As a result, you could lose some or all of any investment you may have made or may make in our common stock. In assessing these risks, you should also refer to the other information contained or incorporated by reference in this prospectus.

RISKS RELATED TO OUR BUSINESS

We have historically incurred losses and may continue to incur losses.

Since the inception of our business in 2000, we have only experienced one fiscal year (2006) with profitable results. In order to regain profitability, or to achieve and sustain positive cash flows from operations in the future, we must reduce operating expenses and/or increase our revenues and gross margins. Although we have in the past engaged in a series of cost reduction actions, and believe that we could reduce our current level of expenses through elimination or reduction of strategic initiatives, such expense reductions alone may not make us profitable or allow us to sustain profitability if it is achieved and eliminating or reducing strategic initiatives could limit our opportunities and prospects. Our ability to achieve profitability will depend on increased revenue growth from, among other things, monetization of our intellectual property, increased demand for our memory subsystems and other product offerings, as well as our ability to expand into new and emerging markets. We may not be successful in achieving the necessary revenue growth or the expected expense reductions. Moreover, we may be unable to sustain past or expected future expense reductions in subsequent periods. We may not achieve profitability or sustain such profitability, if achieved, on a quarterly or annual basis in the future.

Any failure to achieve profitability could result in increased capital requirements and pressure on our liquidity position. We believe our future capital requirements will depend on many factors, including our levels of net product sales and any additional NRE or other revenues we may receive, the timing and extent of expenditures to support product sales and marketing, research and development activities, the expansion of manufacturing capacity both domestically and internationally, market acceptance of our products, intellectual property enforcement activities and strategic collaborations or other transactions. Our capital requirements could result in our having to, or otherwise choosing to, seek additional funding through public or private equity offerings or debt financings. Such funding may not be available when needed, on terms acceptable to us or at all, any of which could result in our inability to meet our financial obligations and other related commitments.

We may not have sufficient working capital to fund our planned operations, and, as a result, we may need to raise additional capital in the future in order to continue operating our business and developing new products and technologies, which capital may not be available when needed, on acceptable terms or at all.

We believe that, taking into account our planned activities, we have sufficient cash resources to satisfy our capital needs for at least the next twelve months. However, our estimates of our operating expenses and working capital requirements could be incorrect, and we may use our cash resources

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faster than we presently anticipate. Further, some or all of our ongoing or planned investments may not be successful and could result in further losses. In addition, irrespective of our cash resources, we may be contractually or legally obligated to make certain investments which cannot be postponed.

Our capital requirements will depend on many factors, including, among others:

the acceptance of, and demand for, our products;

our success and that of our strategic partners in developing and selling products derived from our technology;

our continued listing on The NASDAQ Capital Market;

the costs of further developing our existing, and developing new, products or technologies;

the extent to which we invest in new technology, testing and product development;

costs associated with defending and enforcing our intellectual property rights;

the timing of vendor payments and the collection of receivables, among other factors affecting our working capital;

the exercise of outstanding options or warrants to acquire our common stock;

the number and timing of acquisitions and other strategic transactions in which we participate, if any; and

the costs associated with the continued operation, and any future growth, of our business.

We expect to rely in the near term on funds raised pursuant to this offering and other recent public and private placement offerings of debt and equity securities. However, until we can generate a sufficient amount of revenue to finance our cash requirements, which we may never do, we may need to increase our liquidity and capital resources by one or more measures, which may include, among others, reducing operating expenses, restructuring our balance sheet by negotiating with creditors and vendors, entering into strategic partnerships or alliances, raising additional financing through the issuance of debt, equity, or convertible securities and working to increase revenue growth through new product sales. There is no guarantee that we will be able to obtain capital when needed, on terms acceptable to us, or at all.

Insufficient funds would have a material adverse effect on our business and operations and could cause us to fail to execute our business plan, fail to take advantage of future opportunities or fail to respond to competitive pressures or customer requirements, and further may require us to significantly modify our business model and/or reduce our operations, which could include delaying, scaling back or eliminating some or all of our ongoing and planned investments in corporate infrastructure, research and development projects, regulatory submissions, business development initiatives, and sales and marketing activities, among other investments. Modification of our business model and operations could result in an impairment of assets, the effects of which cannot be determined. Furthermore, if we continue to issue equity or convertible debt securities to raise additional funds, our existing stockholders may experience significant dilution, and the new equity or debt securities may have rights, preferences and privileges that are superior to those of our existing stockholders. If we incur additional debt, it may increase our leverage relative to our earnings or to our equity capitalization.

We have incurred a material amount of indebtedness to fund our operations, the terms of which require that we pledge substantially all of our assets as security. Our level of indebtedness and the terms of such indebtedness, could adversely affect our operations and liquidity.

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We have incurred debt secured by all of our assets under our convertible note with SVIC and our credit facility with Silicon Valley Bank ("SVB"). Our convertible promissory note issued to SVIC is

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secured by a first-priority security interest in our patent portfolio and a second priority security interest in substantially all of our other assets. Our credit facility with SVB is secured by a first priority security interest in all of our assets other than our patent portfolio, to which SVB has a second priority security interest. The SVIC and SVB debt instruments contain customary representations, warranties and indemnification provisions, as well as affirmative and negative covenants that, among other things restrict our ability to:

incur additional indebtedness or guarantees;

incur liens;

make investments, loans and acquisitions;

consolidate or merge

sell or exclusively license assets, including capital stock of subsidiaries;

alter our business;

change any provision of our organizational documents;

engage in transactions with affiliates; and

pay dividends or make distributions.

The SVIC and SVB debt instruments also include events of default, including, among other things, payment defaults, breaches of representations, warranties or covenants, certain bankruptcy events, and certain material adverse changes. If we were to default under either debt instrument and were unable to obtain a waiver for such a default, among other remedies, the lenders could accelerate our obligations under the debt instruments and exercise their rights to foreclose on their security interests, which would cause substantial harm to our business and prospects.

Incurrence and maintenance of this debt could have material consequences, such as:

requiring us to dedicate a portion of our cash flow from operations and other capital resources to debt service, thereby reducing our ability to fund working capital, capital expenditures, and other cash requirements;

increasing our vulnerability to adverse economic and industry conditions;

limiting our flexibility in planning for, or reacting to, changes and opportunities in, our business and industry, which may place us at a competitive disadvantage; and

limiting our ability to incur additional debt on acceptable terms, if at all.

We are involved in and expect to continue to be involved in costly legal and administrative proceedings to defend against claims that we infringe the intellectual property rights of others or to enforce or protect our intellectual property rights.

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As is common in the semiconductor industry, we have experienced substantial litigation regarding patent and other intellectual property rights. Lawsuits claiming that we are infringing others' intellectual property rights have been and may in the future be brought against us, and we are currently defending against claims of invalidity in the USPTO.

The process of obtaining and protecting patents is inherently uncertain. In addition to the patent issuance process established by law and the procedures of the USPTO, we must comply with JEDEC administrative procedures in protecting our intellectual property within its industry standard setting process. These procedures evolve over time, are subject to variability in their application, and may be

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inconsistent with each other. Failure to comply with JEDEC's administrative procedures could jeopardize our ability to claim that our patents have been infringed.

By making use of new technologies and entering new markets there is an increased likelihood that others might allege that our products infringe on their intellectual property rights. Litigation is inherently uncertain, and an adverse outcome in existing or any future litigation could subject us to significant liability for damages or invalidate our proprietary rights. An adverse outcome also could force us to take specific actions, including causing us to:

cease manufacturing and/or selling products, or using certain processes, that are claimed to be infringing a third party's intellectual property;

pay damages (which in some instances may be three times actual damages), including royalties on past or future sales;

seek a license from the third party intellectual property owner to use their technology in our products, which license may not be available on reasonable terms, or at all; or

redesign those products that are claimed to be infringing a third party's intellectual property.

If any adverse ruling in any such matter occurs, any resulting limitations in our ability to market our products, or delays and costs associated with redesigning our products or payments of license fees to third parties, or any failure by us to develop or license a substitute technology on commercially reasonable terms could have a material adverse effect on our business, financial condition and results of operations.

There is a limited pool of experienced technical personnel that we can draw upon to meet our hiring needs. As a result, a number of our existing employees have worked for our existing or potential competitors at some point during their careers, and we anticipate that a number of our future employees will have similar work histories. In the past, some of these competitors have claimed that our employees misappropriated their trade secrets or violated non-competition or non-solicitation agreements. Some of our competitors may threaten or bring legal action involving similar claims against us or our existing employees or make such claims in the future to prevent us from hiring qualified candidates. Lawsuits of this type may be brought, even if there is no merit to the claim, simply as a strategy to drain our financial resources and divert management's attention away from our business.

Our business strategy also includes litigating claims against others, including our competitors, customers and former employees, to enforce our intellectual property, contractual and commercial rights including, in particular, our trade secrets, as well as to challenge the validity and scope of the proprietary rights of others. We could become subject to counterclaims or countersuits against us as a result of this litigation. Moreover, any legal disputes with customers could cause them to cease buying or using our products or delay their purchase of our products and could substantially damage our relationship with them.

Any litigation, regardless of its outcome, would be time consuming and costly to resolve, divert our management's time and attention and negatively impact our results of operations. As a result, any current or future infringement claims by or against third parties or claims for indemnification by customers or end users of our products resulting from infringement claims could materially adversely affect our business, financial condition or results of operations.

As a result of an unfavorable outcome at the PTAB in connection with a decision on appeal in the reexaminations of U.S. Pat. No. 7,619,912 ("912 Patent"), which covers important features of DDR3 LRDIMM designs, and U.S. Pat. No. 7,864,627 ("627 Patent"), we may expend significant resources to continue to pursue valid positions in the '912 and '627 reexaminations, which may not be resolved in a timely manner and may not yield a more favorable outcome.

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We are involved in and expect to continue to be involved in legal proceedings at the ITC to stop infringing SK hynix RDIMM and LRDIMM products from entering the U.S. and in district court to seek damages for patent infringement against SK hynix.

On September 1, 2016, we took action to safeguard our innovations by filing legal proceedings for patent infringement against SK hynix in the ITC and the U.S. District Court for the Central District of California. We are seeking an exclusion order in the ITC that directs U.S. Customs and Border Protection to stop infringing SK hynix RDIMM and LRDIMM products from entering the United States. ITC investigations proceed on an expedited basis, typically advancing to trial within a year from the filing of the complaint and a final decision issued a few months later, but there can be no guarantee that the rendering of a final decision will follow such a timeline. In the district court proceedings, we are primarily seeking damages though we expect this action will likely remain stayed until the ITC reaches conclusion.

Intellectual property litigation is expensive and time-consuming, regardless of the merits of any claim, and could divert our management's attention from operating the business. In addition, lawsuits in the ITC and in district courts are subject to inherent uncertainties due to the complexity of the technical issues involved, and we cannot be assured that we will be successful in our actions. Moreover, if we are counter-sued by Sk hynix and lose the suit, we could be required to pay substantial damages. Furthermore, we may not be able to reach a settlement with Sk hynix to license our patent portfolio on terms acceptable to us, and even if we are able to reach a settlement, the terms of the licensing arrangement may not be as favorable as we anticipated. Any of the foregoing could cause us to incur significant costs and prevent us from selling our products and materially adversely affect our business, financial condition or results of operations.

Our revenues and results of operations have been substantially dependent on NVvault in historical periods and we may be unable to replace revenue lost from the rapid decline in NVvault sales.

For the six months ended July 2, 2016 and June 27, 2015, our NVvault non-volatile DIMM used in cache-protection and data logging applications, including our NVvault battery-free, the flash-based cache system, accounted for approximately 1% and 38% of total net product sales, respectively. We have experienced a steady decline in NVvault sales in recent years, due in large part to our loss of our former most significant NVvault customer, Dell, beginning in 2012. We recognized no NVvault sales to Dell in the six months ended July 2, 2016 and June 27, 2015. We expect no future demand from Dell for our NVvault products. In order to leverage our NVvault technology and diversify our customer base, and to secure one or more new key customers, we continue to pursue additional qualifications of NVvault with other OEMs and to target new customer applications such as online transaction processing, virtualization, big data analytics, high speed transaction processing, high-performance database, and in-memory database applications. We also introduced EXPRESSvault in March 2011 and the next generation of EXPRESSvault (EV3) in July 2015 and we continue to pursue qualification of the next generation DDR4 NVvault with customers. Our future operating results will depend on our ability to commercialize these NVvault product extensions, as well as other products such as HybriDIMM and other high-density and high-performance solutions. HybriDIMM is still under development and may require substantial additional investment and the services and attention of key employees who have competing demands on their available time. Although we believe that our JDLA with Samsung entered into in November 2015 may advance the development of this product and that Samsung may prove to be an important strategic partner that can facilitate getting this technology to market, our partnership with Samsung and any other steps we take to further the development of this or any other products in development could fail. If we are not be successful in expanding our qualifications or marketing any new or enhanced products, we will be unable to secure revenues sufficient to replace lost NVvault revenue and our results of operations and prospects could be materially harmed.

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We are subject to risks relating to our focus on developing our HybriDIMM and NVvault products and lack of market diversification.

We have historically derived a substantial portion of our net sales from sales of our high-performance memory subsystems for use in the server market. We expect these memory subsystems to continue to account for a portion of our net sales in the near term. We believe that market acceptance of these products or derivative products that incorporate our core memory subsystem technology for use in servers is critical to our success.

We have invested a significant portion of our research and development budget into the design of application-specific integrated circuits ("ASIC") and hybrid devices, including our NVvault family of products and most recently our next generation HybriDIMM memory subsystem. These products are subject to increased risks as compared to our legacy products. For example:

we are dependent on a limited number of suppliers for both the DRAM ICs and the ASIC devices that are essential to the functionality of our products, and in the past we have experienced supply chain disruptions and shortages of DRAM and NAND flash required to create our NVvault products as a result of business issues that are specific to our suppliers or the industry as a whole;

we may be unable to achieve new qualifications or customer or market acceptance of our memory subsystem, NVvault products or other new products such as HybriDIMM, or achieve such acceptance in a timely manner;

the NVvault products or other new products such as HybriDIMM may contain currently undiscovered flaws, the correction of which would result in increased costs and time to market; and

we are required to demonstrate the quality and reliability of our products to our customers, and are required to qualify these products with our customers, which requires a significant investment of time and resources prior to the receipt of any revenue from such customers.

Additionally, if the demand for servers deteriorates or if the demand for our products to be incorporated in servers declines, our operating results would be adversely affected, and we would be forced to diversify our product portfolio and our target markets. We may not be able to achieve this diversification, and our inability to do so may adversely affect our business.

We use a small number of FPGAs, DRAM ICs and NAND flash suppliers and are subject to risks of disruption in the supply of FPGAs, DRAM ICs and NAND.

Our ability to fulfill customer orders or produce qualification samples is dependent on a sufficient supply of field-programmable gate arrays ("FPGAs"), DRAM ICs and NAND flash, which are essential components of our memory subsystems. There are a relatively small number of suppliers of FPGAs, DRAM ICs and NAND flash, and we purchase from only a subset of these suppliers. We have no long-term FPGA, DRAM or NAND flash supply contracts.

From time to time, shortages in DRAM ICs and NAND flash have required some suppliers to limit the supply of their DRAM ICs and NAND flash. We have experienced supply chain disruptions and shortages of DRAM and flash required to create our HyperCloud, NVvault and Planar X VLP products, and we are continually working to secure adequate supplies of DRAM and NAND flash necessary to fill customers' orders for our products in a timely manner. If we are unable to obtain a sufficient supply of DRAM ICs or NAND flash to meet our customers' requirements, these customers may reduce future orders for our products or not purchase our products at all, which would cause our net sales to decline and harm our operating results. In addition, our reputation could be harmed and,

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even assuming we are successful in resolving supply chain disruptions, we may not be able to replace any lost business with new customers, and we may lose market share to our competitors.

Our dependence on a small number of suppliers and the lack of any guaranteed sources of FPGAs, DRAM and NAND flash supply expose us to several risks, including the inability to obtain an adequate supply of these important components, price increases, delivery delays and poor quality.

Historical declines in customer demand and our revenues caused us to reduce our purchases of DRAM ICs and NAND flash. Such fluctuations could continue in the future. If we fail to maintain sufficient purchase levels with some suppliers, our ability to obtain supplies of raw materials may be impaired due to the practice of some suppliers to allocate their products to customers with the highest regular demand.

Our customers qualify the FPGAs, DRAM ICs and NAND flash of our suppliers for use in their systems. If one of our suppliers should experience quality control problems, it may be disqualified by one or more of our customers. This would disrupt our supplies of FPGAs, DRAM ICs and NAND flash and reduce the number of suppliers available to us, and may require that we qualify a new supplier. If our suppliers are unable to produce qualification samples on a timely basis or at all, we could experience delays in the qualification process, which could have a significant impact on our ability to sell that product.

We may be unsuccessful in establishing and operating a licensing business.

Although we intend to pursue an intellectual property-based licensing business in order to monetize our intellectual property rights, we are currently operating based on a products-based business model and we may never be successful in developing any licensing business. Although we may pursue an agreement with Samsung in the future to grant Samsung a commercial license to our NVDIMM-P technology pursuant to the terms of our JDLA with Samsung, we may never successfully enter into any such agreement with Samsung or any other third party. Further, the terms of any such agreements that we may reach with third party licensees are uncertain and may not provide significant royalty or other licensing revenues to us to justify our costs of developing and maintaining the licensed intellectual property or may otherwise include terms that are not favorable to us. Additionally, the pursuit of a licensing business would require by its nature that we relinquish certain of our rights to our technologies and intellectual property that we license to third parties, which could limit our ability to base our own products on such technologies or could reduce the economic value that we receive from such technologies and intellectual property. Additionally, the establishment of this new business may be more difficult or costly than expected and require additional personnel, investments and may be a significant distraction for management. In connection with any licensing business we may develop, our licenses and royalty revenue may be uncertain from period to period and we may be unable to attract sufficient licensing customers, which would materially and adversely affect our results of operations. Our ability to maintain or increase our license revenue will depend on a variety of factors, including novelty, utility, performance, quality, breadth and depth of our current and future intellectual property and technology, all as compared to that of our competitors, as well as our sales and marketing capabilities. Once secured, license revenue may be negatively affected by factors within and outside our control, including reductions in our customers' sales prices, sales volumes and the terms of such license arrangements. If we are not successful in achieving a licensing business, we may never recoup the costs associated with developing, maintaining, defending and enforcing our intellectual property portfolio and our financial condition would be harmed.

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We may lose our competitive position if we are unable to timely and cost-effectively develop new or enhanced products that meet our customers' requirements and achieve market acceptance or technologies that we can monetize through licensing arrangements or otherwise.

Our industry is characterized by intense competition, rapid technological change, evolving industry standards and rapid product obsolescence. Evolving industry standards and technological change or new, competitive technologies could render our existing products and technologies obsolete. Accordingly, our ability to compete in the future will depend in large part on our ability to identify and develop new or enhanced products and technologies on a timely and cost-effective basis, and to respond to changing customer requirements. In order to develop and introduce new or enhanced products and technologies, we need to:

identify and adjust to the changing requirements of our current and potential customers;

identify and adapt to emerging technological trends and evolving industry standards in our markets;

design and introduce cost-effective, innovative and performance-enhancing features that differentiate our products and technologies from those of our competitors;

develop relationships with potential suppliers of components required for these new or enhanced products and technologies;

qualify these products for use in our customers' products; and

develop and maintain effective marketing strategies.

Our product development efforts ar