

KULICKE & SOFFA INDUSTRIES INC
Form POS AM
June 30, 2005

As filed with the Securities and Exchange Commission on June 30, 2005

Registration No. 333-82910

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

POST-EFFECTIVE AMENDMENT NO. 2
ON FORM S-3 TO
REGISTRATION STATEMENT ON FORM S-1
UNDER
THE SECURITIES ACT OF 1933

KULICKE AND SOFFA INDUSTRIES, INC.

(Exact name of registrant as specified in its charter)

Pennsylvania
(State or other jurisdiction of
incorporation or organization)

23-1498399
(I.R.S. Employer
Identification Number)

2101 Blair Mill Road

Willow Grove, Pennsylvania 19090

(215) 784-6000

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

David J. Anderson

Vice President and General Counsel

2101 Blair Mill Road

Willow Grove, Pennsylvania 19090

(215) 784-6000

(Name, address, including zip code, and telephone number, including area code, of agent for service)

Copy to:

F. Douglas Raymond, III

Drinker Biddle & Reath LLP

One Logan Square

18th and Cherry Streets

Philadelphia, PA 19103-6996

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this Registration Statement as determined by the Registrant, depending on market conditions or other factors.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. "

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. x

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. "

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If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. "

If delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box. "

PROSPECTUS

\$250,000,000

Common Stock

Preferred Stock

Senior Debt Securities

Senior Subordinated Debt Securities

Subordinated Debt Securities

Warrants

Units

Kulicke & Soffa, directly or through underwriters designated from time to time, may offer, issue and sell, together or separately, (i) shares of common stock, (ii) shares of preferred stock, (iii) debt securities, which may be senior debt securities, senior subordinated debt securities or subordinated debt securities, (iv) warrants to purchase common stock, preferred stock, debt securities and (v) units consisting of two or more classes of the securities registered hereunder. The aggregate public offering price of the securities we may sell under this prospectus will not exceed \$250,000,000.

The form in which we are to issue the securities, their specific designation, aggregate principal amount or aggregate initial offering price, maturity, if any, rate and times of payment of interest or dividends, if any, redemption, conversion, and sinking fund terms, if any, voting or other rights, if any, exercise price and detachability, if any, and other specific terms will be described in a supplement to this prospectus, together with the terms, of the offering of such securities.

Investing in the securities offered hereby involves risks. See Risk Factors beginning on page 2.

Our common stock is traded on the Nasdaq National Market under the symbol KLIC. Any prospectus supplement will also contain information, where applicable, as to any other listing on a securities exchange of the securities covered by such prospectus supplement.

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

This prospectus may not be used to offer and sell securities unless it is accompanied by a prospectus supplement.

This prospectus is dated June 30, 2005.

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About this Prospectus

All references in this prospectus to Kulicke & Soffa, the company, our, us and we refer to Kulicke and Soffa Industries, Inc. and its consolidated subsidiaries, except where the context otherwise requires or as otherwise indicated.

This prospectus is part of a registration statement that we have filed with the Securities and Exchange Commission (the SEC) using a shelf registration. Under this shelf registration, we may sell any combination of the securities described in this prospectus in one or more offerings up to an aggregate initial offering price of \$250,000,000. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add, update or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with the additional information described in Where You Can Find More Information before you decide whether to invest in the securities.

You should rely only on the information contained in, or incorporated by reference into, this prospectus and any applicable prospectus supplement. You may obtain the information incorporated by reference into this prospectus without charge by following the instructions under Where You Can Find More Information below. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer to sell these securities or soliciting an offer to buy the securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information appearing in this prospectus is accurate only as of the date of this prospectus. Our business, financial condition, results of operations and prospects may have changed since that date.

This prospectus is based on information provided by us and by other sources that we believe are reliable. We cannot assure you that this information is accurate or complete. This prospectus summarizes certain documents and other information, and we refer you to them for a more complete understanding of what we discuss in this prospectus. In making an

investment decision, you must rely on your own examination of our company and the terms of this offering and the securities, including the merits and risks involved.

We are not making any representation to any purchaser of the securities regarding the legality of an investment in the securities by such purchaser. You should not consider any information in this prospectus to be legal, business or tax advice. You should consult your own attorney, business advisor or tax advisor for legal, business and tax advice regarding an investment in the securities.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

In addition to historical information, this prospectus, including the information incorporated by reference into this prospectus, contains statements relating to future events or our future results. These statements are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the Securities Act) and Section 21E of the Securities Exchange Act of 1934, as amended (the Exchange Act), and are subject to the safe harbor provisions created by statute. These forward-looking statements include, but are not limited to, statements that relate to our future revenue, operating expenses, amortization expenses, gross margins, working capital needs, liquidity and capital requirements, cash flows and cash reserves, and to our product development, demand forecasts, competitiveness, and the benefits expected as a result of:

the projected growth rates in the overall semiconductor industry, the semiconductor assembly equipment market, the market for semiconductor packaging materials and the market for test interconnect solutions;

the successful operation of our existing test business, development and introduction of new test products and our test business's expected growth rate;

cost reduction initiatives, including workforce reductions, consolidation of operations and transfer of manufacturing capacity to China; and

the projected continuing demand for wire bonders.

Generally, words such as may, will, should, could, anticipate, expect, intend, estimate, plan, goal, continue, and believe, other variations on these and other similar expressions identify forward-looking statements. These forward-looking statements are made only as of the date of this prospectus. We do not undertake to update or revise the forward-looking statements contained in or incorporated by reference into this prospectus, whether as a result of new information, future events or otherwise.

Forward-looking statements are based on current expectations and involve risks and uncertainties and our future results could differ significantly from those expressed or implied by our forward-looking statements. These risks and uncertainties include, without limitation, those described under Risk Factors and those detailed from time to time in our filings with the SEC, which are incorporated by reference into this prospectus. In addition, other risks and uncertainties not presently known to us or that we currently consider less significant could affect the accuracy of our forward-looking statements. In light of these and other uncertainties, you should not conclude that we will necessarily achieve any plans or objectives or projected financial results referred to in any forward-looking statements.

SUMMARY

This summary contains basic information about us and this prospectus. Because it is a summary, it does not contain all of the information that is important to you or that you should consider before investing. You should read this entire prospectus carefully, including the section entitled "Risk Factors" and our financial statements and the other documents included in or incorporated by reference into this prospectus, and any prospectus supplement before making an investment decision.

We design, manufacture and market capital equipment, packaging materials and test interconnect products as well as service, maintain, repair and upgrade equipment, all used to assemble and/or test semiconductor devices. We are currently the world's leading supplier of semiconductor wire bonding assembly equipment, according to VLSI Research, Inc. Our business is currently divided into three product segments:

equipment;

packaging materials; and

wafer and package test interconnect products.

We believe we are the only major supplier to the semiconductor assembly industry that can provide customers with semiconductor wire bonding equipment along with the complementary packaging materials and test interconnect products that actually contact the surface of the customer's semiconductor devices. We believe that the ability to control all of these assembly related products provides us with a significant competitive advantage and should allow us to develop system solutions to the new technology challenges inherent in assembling and packaging next-generation semiconductor devices.

Kulicke and Soffa Industries, Inc. was incorporated in Pennsylvania in 1956. Our principal offices are located at 2101 Blair Mill Road, Willow Grove, Pennsylvania 19090 and our telephone number is (215) 784-6000. We maintain a website with the address www.kns.com. We are not including the information contained on our website as a part of, or incorporating it by reference into, this prospectus.

RISK FACTORS

You should carefully consider all of the information contained in this prospectus and the financial statements and other documents summarized in or incorporated by reference into this prospectus, including the risks described below before making an investment decision. The risks described below are not the only ones facing our company. Additional risks not presently known to us or that we currently consider less significant may also impair our business operations.

Our business, financial condition, or results of operations could be materially adversely affected by any of these risks. The trading price of the securities could decline due to any of these risks, and you may lose all or part of your investment.

Risks Relating to Our Business

The semiconductor industry is volatile with sharp periodic downturns and slowdowns

Our operating results are significantly affected by the capital expenditures of large semiconductor manufacturers and their subcontract assemblers and vertically integrated manufacturers of electronic systems. Expenditures by semiconductor manufacturers and their subcontract assemblers and vertically integrated manufacturers of electronic systems depend on the current and anticipated market demand for semiconductors and products that use semiconductors, including personal computers, telecommunications equipment, consumer electronics, and automotive goods. Significant downturns in the market for semiconductor devices or in general economic conditions reduce demand for our products and materially and adversely affect our business, financial condition and operating results.

Historically, the semiconductor industry has been volatile, with periods of rapid growth followed by industry-wide retrenchment. These periodic downturns and slowdowns have adversely affected our business, financial condition and operating results. They have been characterized by, among other things, diminished product demand, excess production capacity, and accelerated erosion of selling prices. These downturns historically have severely and negatively affected the industry's demand for capital equipment, including the assembly equipment, the packaging materials and test solutions that we sell.

During the fourth quarter of fiscal 2004, we experienced a 24.2% decline in sales compared to our third quarter. The sales decline continued into the first quarter of fiscal 2005 as sales were down 21.2% compared to the fourth quarter of fiscal 2004. Although sales increased 7.3% in the second quarter of fiscal 2005 compared to the first fiscal quarter, we believe the semiconductor industry remains in a downturn. There can be no assurances regarding the length or severity of the current downturn. There can be no assurances regarding levels of demand for our products, and in any case, we believe the historical volatility both upward and downward will persist.

We may experience increasing price pressure

Our historical business strategy for many of our products has focused on product performance and customer service rather than on price. The length and severity of the fiscal 2001 – fiscal 2003 economic downturn increased cost pressure on our customers and we have observed increasing price sensitivity on their part. In response, we are actively seeking to reduce our cost structure by moving operations to lower cost areas and by reducing other operating costs. If we are unable to realize prices that allow us to continue to compete on the basis of performance and service, our financial condition and operating results may be materially and adversely affected.

Our quarterly operating results fluctuate significantly and may continue to do so in the future

In the past, our quarterly operating results have fluctuated significantly; we expect that they will continue to fluctuate. Although these fluctuations are partly due to the volatile nature of the semiconductor industry, they also reflect other factors, many of which are outside of our control.

Some of the factors that may cause our revenues and/or operating margins to fluctuate significantly from period to period are:

market downturns;

the mix of products that we sell because, for example:

our test business has lower margins than assembly equipment and packaging materials;

some lines of equipment within our business segments are more profitable than others; and

some sales arrangements have higher margins than others;

the volume and timing of orders for our products and any order postponements;

virtually all of our orders are subject to cancellation, deferral or rescheduling by customers without prior notice and with limited or no penalties;

changes in our pricing, or that of our competitors;

higher than anticipated costs of development or production of new equipment models;

the availability and cost of the components for our products;

unanticipated delays in the development and manufacture of our new products and upgraded versions of our products and market acceptance of these products when introduced;

customers' delay in purchasing our products due to customer anticipation that we or our competitors may introduce new or upgraded products; and

our competitors' introduction of new products.

Many of our expenses, such as research and development, selling, general and administrative expenses and interest expense, do not vary directly with our net sales. Our research and development efforts include long-term projects lasting a year or more, which require significant investments. In order to realize the benefits of these projects, we believe that we must continue to fund them during periods when our net sales have declined. As a result, a decline in our net sales would adversely affect our operating results. In addition, if we were to incur additional expenses in a quarter in which we did not experience comparable increased net sales, our operating results would decline. In a downturn, we may have excess inventory, which is required to be written off. Some of the other factors that may cause our expenses to fluctuate from period-to-period include:

the timing and extent of our research and development efforts;

severance, resizing and other costs of relocating facilities;

inventory write-offs due to obsolescence; and

inflationary increases in the cost of labor or materials.

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Because our revenues and operating results are volatile and difficult to predict, we believe that consecutive period-to-period comparisons of our operating results may not be a good indication of our future performance.

We may not be able to rapidly develop, manufacture and gain market acceptance of new and enhanced products required to maintain or expand our business

We believe that our continued success depends on our ability to continuously develop and manufacture new products and product enhancements on a timely and cost-effective basis. We must timely introduce these products and product

enhancements into the market in response to customers' demands for higher performance assembly equipment, leading-edge materials and for test solutions customized to address rapid technological advances in integrated circuits and capital equipment designs. Our competitors may develop new products or enhancements to their products that offer performance, features and lower prices that may render our products less competitive. The development and commercialization of new products requires significant capital expenditures over an extended period of time, and some products that we seek to develop may never become profitable. In addition, we may not be able to develop and introduce products incorporating new technologies in a timely manner that will satisfy our customers' future needs or achieve market acceptance.

Most of our sales and a substantial portion of our manufacturing operations are located outside of the United States, and we rely on independent foreign distribution channels for certain product lines; all of which subject us to risks from changes in trade regulations, currency fluctuations, political instability and war

Approximately 84% of our net sales for the three months ending March 31, 2005, 86% of our net sales for fiscal 2004 and 80% of our net sales for fiscal 2003 were attributable to sales to customers for delivery outside of the United States, in particular to customers in the Asia/Pacific region. We expect this trend to continue. Thus, our future performance will depend, in significant part, on our ability to continue to compete in foreign markets, particularly in the Asia/Pacific region. These economies have been highly volatile, resulting in significant fluctuation in local currencies, and political and economic instability. These conditions may continue or worsen, which may materially and adversely affect our business, financial condition and operating results.

We also rely on foreign suppliers for materials and components used in our products, and most of our manufacturing operations are located in countries other than the United States. We manufacture our automatic ball bonders and bonding wire in Singapore, we manufacture capillaries in Israel and China, bonding wire in Switzerland, test products in Taiwan, China and France, and we have sales, service and support personnel in China, Hong Kong, Japan, Korea, Malaysia, the Philippines, Singapore, Taiwan and Europe. We also rely on independent foreign distribution channels for certain of our product lines. As a result, a major portion of our business is subject to the risks associated with international, and particularly Asia/Pacific, commerce, such as:

risks of war and civil disturbances or other events that may limit or disrupt markets;

expropriation of our foreign assets;

longer payment cycles in foreign markets;

international exchange restrictions;

restrictions on the repatriation of our assets, including cash;

the difficulties of staffing and managing dispersed international operations;

possible disagreements with tax authorities regarding transfer pricing regulations;

episodic events outside our control such as, for example, the outbreak of Severe Acute Respiratory Syndrome or influenza;

tariff and currency fluctuations;

changing political conditions;

labor conditions and costs;

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foreign governments' monetary policies and regulatory requirements;

less protective foreign intellectual property laws; and

legal systems which are less developed and which may be less predictable than those in the United States.

Because most of our foreign sales are denominated in United States dollars, an increase in value of the United States dollar against foreign currencies, particularly the Japanese yen, will make our products more expensive than those offered by some of our foreign competitors. Our ability to compete overseas in the future may be materially and adversely affected by a strengthening of the United States dollar against foreign currencies.

We are exposed to fluctuations in currency exchange rates that could negatively impact our financial results and cash flows

Because a significant portion of our business is conducted outside the United States, we face exposure to adverse movements in foreign currency exchange rates. These exposures could have a material adverse impact on our financial results and cash flows. Historically, our primary exposures have related to (net) receivables denominated in currencies other than a foreign subsidiary's functional currency, and remeasurement of our foreign subsidiary's net monetary assets from the subsidiary's local currency into the subsidiary's functional currency (the U.S. dollar). In general, an increase in the value of the U.S. dollar could require certain of our foreign subsidiaries to record translation and remeasurement gains. Conversely, a decrease in the value of the U.S. dollar could require certain of our foreign subsidiaries to record losses on translation and remeasurement. An increase in the value of the dollar could increase the cost to our customers of our products in those markets outside the United States where we sell in dollars, and a weakened dollar could increase the cost of local operating expenses and procurement of raw materials. Currently, we do not enter into foreign exchange forward contracts or other instruments designed to minimize the short-term impact of foreign currency fluctuations on our business. In the future, we may enter into such instruments or other arrangements. Our attempts to hedge against these risks may not be successful and may result in a material adverse impact on our financial results and cash flows. Because we have significant assets, including cash, outside the United States, those assets are subject to risks of seizure, and it may be difficult to repatriate them, and repatriation may result in the payment by us of significant foreign and United States taxes.

Our international operations also depend upon favorable trade relations between the United States and those foreign countries in which our customers, subcontractors, and materials suppliers have operations. A protectionist trade environment in either the United States or those foreign countries in which we do business, such as a change in the current tariff structures, export compliance or other trade policies, may materially and adversely affect our ability to sell our products in foreign markets.

We may not be able to consolidate manufacturing facilities without incurring unanticipated costs and disruptions to our business

In an effort to further reduce our cost structure, we are closing some of our manufacturing facilities and expanding others. We may incur significant and unexpected costs, delays and disruptions to our business during this consolidation process. Because of unanticipated events, including the actions of governments, employees or customers, we may not realize the synergies, cost reductions and other benefits of any consolidation to the extent or within the timeframe that we currently expect.

Our business depends on attracting and retaining management, marketing and technical employees

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Our future success depends on our ability to hire and retain qualified management, marketing and technical employees. In particular, we periodically experience shortages of technical personnel. If we are unable to continue to attract and retain the managerial, marketing and technical personnel we require, our business, financial condition and operating results could be materially and adversely affected.

Difficulties in forecasting demand for our product lines may lead to periodic inventory shortages or excesses

We typically operate our business with a relatively short backlog. As a result, we sometimes experience inventory shortages or excesses. We generally order supplies and otherwise plan our production based on internal forecasts of demand. We have in the past, and may again in the future, fail to forecast accurately demand for our products, in terms of both volume and configuration for either our current or next-generation wire bonders. This has led to and may in the future lead to delays in product shipments or, alternatively, an increased risk of inventory obsolescence. If we fail to forecast accurately demand for

our products, including assembly equipment, packaging materials and test solutions, our business, financial condition and operating results may be materially and adversely affected.

Advanced packaging technologies other than wire bonding may render some of our products obsolete

Advanced packaging technologies have emerged that may improve device performance or reduce the size of an integrated circuit package, as compared to traditional die and wire bonding. These technologies include flip chip and chip scale packaging. Some of these advanced technologies eliminate the need for wires to establish the electrical connection between a die and its package. The semiconductor industry may, in the future, shift a significant part of its volume into advanced packaging technologies, such as those discussed above, which do not employ our products. If a significant shift to advanced packaging technologies were to occur, demand for our wire bonders and related packaging materials may be materially and adversely affected.

Because a small number of customers account for most of our sales, our revenues could decline if we lose a significant customer

The semiconductor manufacturing industry is highly concentrated, with a relatively small number of large semiconductor manufacturers and their subcontract assemblers and vertically integrated manufacturers of electronic systems purchasing a substantial portion of our semiconductor assembly equipment, packaging materials and test solutions. Sales to a relatively small number of customers account for a significant percentage of our net sales. In the six months ending March 31, 2005, and for fiscal 2004 and fiscal 2003, sales to Advanced Semiconductor Engineering, our largest customer, accounted for 14%, 17% and 13%, respectively, of our net sales.

We expect that sales of our products to a small number of customers will continue to account for a high percentage of our net sales for the foreseeable future. Thus, our business success depends on our ability to maintain strong relationships with our important customers. Any one of a number of factors could adversely affect these relationships. If, for example, during periods of escalating demand for our equipment, we were unable to add inventory and production capacity quickly enough to meet the needs of our customers, they may turn to other suppliers making it more difficult for us to retain their business. Similarly, if we are unable for any other reason to meet production or delivery schedules, particularly during a period of escalating demand, our relationships with our key customers could be adversely affected. If we lose orders from a significant customer, or if a significant customer reduces its orders substantially, these losses or reductions may materially and adversely affect our business, financial condition and operating results.

We depend on a small number of suppliers for raw materials, components and subassemblies. If our suppliers do not deliver their products to us, we would be unable to deliver our products to our customers

Our products are complex and require raw materials, components and subassemblies having a high degree of reliability, accuracy and performance. We rely on subcontractors to manufacture many of these components and subassemblies and we rely on sole source suppliers for some important components and raw materials, including gold. As a result, we are exposed to a number of significant risks, including:

lack of control over the manufacturing process for components and subassemblies;

changes in our manufacturing processes, in response to changes in the market, which may delay our shipments;

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our inadvertent use of defective or contaminated raw materials;

the relatively small operations and limited manufacturing resources of some of our suppliers, which may limit their ability to manufacture and sell subassemblies, components or parts in the volumes we require and at acceptable quality levels and prices;

reliability or quality problems with certain key subassemblies provided by single source suppliers as to which we may not have any short term alternative;

shortages caused by disruptions at our suppliers and subcontractors for a variety of reasons, including work stoppage or fire, earthquake, flooding or other natural disasters;

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delays in the delivery of raw materials or subassemblies, which, in turn, may delay our shipments; and

the loss of suppliers as a result of consolidation of suppliers in the industry.

If we are unable to deliver products to our customers on time for these or any other reasons; if we are unable to meet customer expectations as to cycle time; or if we do not maintain acceptable product quality or reliability, our business, financial condition and operating results may be materially and adversely affected.

Our test business presents significant management and operating challenges

During fiscal 2001, we acquired two companies that design and manufacture test solutions, Cerprobe Corporation and Probe Technology Corporation, and combined their operations to create our test business. Since its acquisition in 2001, this business has not performed to our expectations. During June 2005, we performed interim impairment tests on our test segment goodwill due to the existence of impairment triggers, which were difficulties in the development of new test products, anticipated challenges in the introduction of these new products, and greater than expected losses incurred by the test segment. As a result of these impairment tests, we announced that a test segment goodwill and intangible assets impairment charge is required, and is estimated to be between \$90.0 million and \$110.0 million. Our plan to correct the problems faced by our test business centers on the following steps: standardize production processes between the various test manufacturing sites, create and ramp production of our highest volume products in a new lower cost site in China and/or outsource production where appropriate; then rationalize excess capacity by converting existing higher cost, low volume manufacturing sites to service centers. Our plan to achieve profitability in our test business also depends upon the successful development, manufacture and sale of new test products on a timely and cost effective basis. If we are unable to successfully implement our plans, our operating margins, results of operations and financial condition will continue to be adversely affected by the poor performance of our test business.

Diversification into multiple businesses increases demands on our management and systems

Our diversification strategy into multiple business segments has increased demands on our management, financial resources and information and internal control systems. Our success will depend, in part, on our ability to manage and integrate our test division and our equipment and packaging materials businesses and to continue successfully to implement, improve and expand our systems, procedures and controls. If we fail to integrate our businesses successfully or to develop the necessary internal procedures to manage diversified businesses, our business, financial condition and operating results may be materially and adversely affected.

We may from time to time in the future seek to expand our business through acquisition. In that event, the success of any such acquisition will depend, in part, on our ability to integrate and finance (on acceptable terms) the acquisition.

We may be unable to continue to compete successfully in the highly competitive semiconductor equipment, packaging materials and test solutions industries

The semiconductor equipment, packaging materials and test solutions industries are very competitive. In the semiconductor equipment and test solutions markets, significant competitive factors include performance, quality, customer support and price. In the semiconductor packaging materials industry, competitive factors include price, delivery and quality.

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In each of our markets, we face competition and the threat of competition from established competitors and potential new entrants. In addition, established competitors may combine to form larger, better capitalized companies. Some of our competitors have or may have significantly greater financial, engineering, manufacturing and marketing resources than we have. Some of these competitors are Asian and European companies that have had and may continue to have an advantage over us in supplying products to local customers who appear to prefer to purchase from local suppliers, without regard to other considerations.

We expect our competitors to improve their current products' performance, and to introduce new products and materials with improved price and performance characteristics. Our competitors may independently develop technology that is similar to or better than ours. New product and materials introductions by our competitors or by new market entrants could hurt our sales. If a particular semiconductor manufacturer or subcontract assembler selects a competitor's product or materials for a particular assembly operation, we may not be able to sell products or materials to that manufacturer or assembler for a significant period of time because manufacturers and assemblers sometimes develop lasting relations with suppliers, and assembly equipment in our industry often goes years without requiring replacement. In addition, we may have to lower our

prices in response to price cuts by our competitors, which may materially and adversely affect our business, financial condition and operating results. We cannot assure you that we will be able to continue to compete in these or other areas in the future. If we cannot compete successfully, we could be forced to reduce prices, and could lose customers and market share and experience reduced margins and profitability.

Our success depends in part on our intellectual property, which we may be unable to protect

Our success depends in part on our proprietary technology. To protect this technology, we rely principally on contractual restrictions (such as nondisclosure and confidentiality provisions) in our agreements with employees, subcontractors, vendors, consultants and customers and on the common law of trade secrets and proprietary know-how. We also rely, in some cases, on patent and copyright protection. We may not be successful in protecting our technology for a number of reasons, including the following:

employees, subcontractors, vendors, consultants and customers may violate their contractual agreements, and the cost of enforcing those agreements may be prohibitive, or those agreements may be unenforceable or more limited than we anticipate;

foreign intellectual property laws may not adequately protect our intellectual property rights;

our patent and copyright claims may not be sufficiently broad to effectively protect our technology; our patents or copyrights may be challenged, invalidated or circumvented; or we may otherwise be unable to obtain adequate protection for our technology.

In addition, our partners and alliances may also have rights to technology that we develop. We may incur significant expense to protect or enforce our intellectual property rights. If we are unable to protect our intellectual property rights, our competitive position may be weakened.

Third parties may claim we are infringing on their intellectual property, which could cause us to incur significant litigation costs or other expenses, or prevent us from selling some of our products

The semiconductor industry is characterized by rapid technological change, with frequent introductions of new products and technologies. Industry participants often develop products and features similar to those introduced by others, creating a risk that their products and processes may give rise to claims that they infringe on the intellectual property of others. We may unknowingly infringe on the intellectual property rights of others and incur significant liability for that infringement. If we are found to have infringed on the intellectual property rights of others, we could be enjoined from continuing to manufacture, market or use the affected product, or be required to obtain a license to continue manufacturing or using the affected product. A license could be very expensive to obtain or may not be available at all. Similarly, changing or re-engineering our products or processes to avoid infringing the rights of others may be costly, impractical or time consuming.

Occasionally, third parties assert that we are, or may be, infringing on or misappropriating their intellectual property rights. In these cases, we will defend against claims or negotiate licenses where we consider these actions appropriate. Intellectual property cases are uncertain and involve complex legal and factual questions. If we become involved in this type of litigation, it could consume significant resources and divert our attention from our business.

Some of our customers are parties to litigation brought by the Lemelson Medical, Education and Research Foundation Limited Partnership (Lemelson), in which Lemelson claims that certain manufacturing processes used by those customers infringe patents held by Lemelson. We have never been named a party to any such litigation. Some customers have requested that we indemnify them to the extent their liability for

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these claims arises from use of our equipment. We do not believe that products sold by us infringe valid Lemelson patents. If a claim for contribution were to be brought against us, we believe we would have valid defenses to assert and also would have rights to contribution and claims against our suppliers. We have not incurred any material liability with respect to the Lemelson claims or any other pending intellectual property claim to date and we do not believe that these claims will materially and adversely affect our business, financial condition or operating results. The ultimate outcome of any infringement or misappropriation claim that might be made, however, is uncertain and we cannot assure you that the resolution of any such claim would not materially and adversely affect our business, financial condition and operating results.

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We may be materially and adversely affected by environmental and safety laws and regulations

We are subject to various federal, state, local and foreign laws and regulations governing, among other things, the generation, storage, use, emission, discharge, transportation and disposal of hazardous material, investigation and remediation of contaminated sites and the health and safety of our employees. Increasingly, public attention has focused on the environmental impact of manufacturing operations and the risk to neighbors of chemical releases from such operations.

Proper waste disposal plays an important role in the operation of our manufacturing plants. In many of our facilities we maintain wastewater treatment systems that remove metals and other contaminants from process wastewater. These facilities operate under permits that must be renewed periodically. A violation of those permits may lead to revocation of the permits, fines, penalties or the incurrence of capital or other costs to comply with the permits, including potential shutdown of operations.

In the future, existing or new land use and environmental regulations may: (1) impose upon us the need for additional capital equipment or other process requirements, (2) restrict our ability to expand our operations, (3) subject us to liability for, among other matters, remediation, and/or (4) cause us to curtail our operations. We cannot assure you that any costs or liabilities associated with complying with these environmental laws will not materially and adversely affect our business, financial condition and operating results.

Anti-takeover provisions in our articles of incorporation and bylaws, and under Pennsylvania law may discourage other companies from attempting to acquire us

Some provisions of our articles of incorporation and bylaws of Pennsylvania law may discourage some transactions where we would otherwise experience a fundamental change. For example, our articles of incorporation and bylaws contain provisions that:

classify our board of directors into four classes, with one class being elected each year;

permit our board to issue blank check preferred stock without stockholder approval; and

prohibit us from engaging in some types of business combinations with a holder of 20% or more of our voting securities without super-majority board or stockholder approval.

Further, under the Pennsylvania Business Corporation Law, because our bylaws provide for a classified board of directors, stockholders may remove directors only for cause. These provisions and some other provisions of the Pennsylvania Business Corporation Law could delay, defer or prevent us from experiencing a fundamental change and may adversely affect our common stockholders' voting and other rights.

Terrorist attacks, such as the attacks that occurred in New York and Washington, D.C. on September 11, 2001, or other acts of violence or war may affect the markets in which we operate and our profitability

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Terrorist attacks may negatively affect our operations. There can be no assurance that there will not be further terrorist attacks against the United States or United States businesses. These attacks or armed conflicts may directly impact our physical facilities or those of our suppliers or customers. Our primary facilities include administrative, sales and R&D facilities in the United States and manufacturing facilities in the United States, Israel, Singapore and China. Also, these attacks have disrupted the global insurance and reinsurance industries with the result that we may not be able to obtain insurance at historical terms and levels for all of our facilities. Furthermore, these attacks may make travel and the transportation of our supplies and products more difficult and more expensive and ultimately affect the sales of our products in the United States and overseas. The existing conflicts in Afghanistan and Iraq, and particularly in Israel, where we maintain a manufacturing facility, or any broader conflict, could have a further impact on our domestic and international sales, our supply chain, our production capability and our ability to deliver products to our customers. Political and economic instability in some regions of the world could negatively impact our business. The consequences of any of these armed conflicts are unpredictable, and we may not be able to foresee events that could have an adverse effect on our business or your investment.

We may be unable to generate enough cash to repay our debt

Our ability to make payments on our indebtedness and to fund planned capital expenditures and other activities will depend on our ability to generate cash in the future. If our convertible debt is not converted to our common shares, we will be required to make annual cash interest payments of \$1.7 million in each of fiscal years 2005 through 2008, \$821 thousand in

fiscal 2009 and \$488 thousand in fiscal 2010 on our aggregate \$270 million of convertible subordinated debt. Principal payments of \$205 million and \$65 million on the convertible subordinated debt are due in fiscal 2009 and 2010, respectively. Our ability to make payments on our indebtedness is affected by the volatile nature of our business, and general economic, competitive and other factors that are beyond our control. Our indebtedness poses risks to our business, including that:

insufficient cash flow from operations to repay our outstanding indebtedness when it becomes due may force us to sell assets, or seek additional capital, which we may be unable to do at all or on terms favorable to us; and

our level of indebtedness may make us more vulnerable to economic or industry downturns.

We cannot assure you that our business will generate cash in an amount sufficient to enable us to service interest, principal and other payments on our debt or to fund our other liquidity needs.

We are not restricted under the agreements governing our existing indebtedness from incurring additional debt in the future. If new debt is added to our current levels, our leverage and our debt service obligations would increase and the related risks described above could intensify.

Changes in stock option accounting rules may adversely impact our reported operating results prepared in accordance with generally accepted accounting principles, our stock price and our competitiveness in the employee marketplace.

We have historically used broad based employee stock option programs to hire, incentivize and retain our workforce. Currently, Statement of Financial Accounting Standards (SFAS) No. 123, Accounting for Stock-Based Compensation, allows companies the choice of either using a fair value method of accounting for options, which would result in expense recognition for all options granted, or using an intrinsic value method, as prescribed by Accounting Principles Board Opinion (APB) No. 25, Accounting for Stock Issued to Employees, with a pro forma disclosure of the impact on net income of using the fair value recognition method. We have elected to apply APB 25 and accordingly, we do not recognize any expense with respect to employee stock options as long as such options are granted at exercise prices equal to the fair value of our common stock on the date of grant.

SFAS No. 123R, Share-Based Payment, will be effective for public companies for annual periods beginning after June 15, 2005. Under SFAS No. 123R, companies must expense the fair value of employee stock options and similar awards as of the date the Company grants the awards to employees. The expense would be recognized over the vesting period for each option and adjusted for actual forfeitures that occur before vesting.

We are currently assessing each of the three transition methods offered by FAS 123R and believe the adoption of FAS 123R will have a material impact on our consolidated financial statements regardless of the method selected. In addition, this could negatively impact our ability to utilize employee stock plans to recruit and retain employees and could result in a competitive disadvantage to us in the employee marketplace.

Failure to receive shareholder approval for additional employee stock options and other equity compensation may adversely affect our ability to hire and retain employees.

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Currently, we do not have an employee equity compensation plan in place that would allow us to issue significant additional equity compensation to employees. Our board of directors approved an equity stock compensation plan and recommended the plan to shareholders for approval at our 2005 Annual Shareholder Meeting. The shareholders did not approve the plan. If we do not receive shareholder approval of a new plan at our 2006 Annual Shareholder Meeting that provides for a sufficient number and type of awards, our ability to hire and retain employees may be adversely affected. In an effort to remain competitive in the employee marketplace, we may decide to increase employees cash compensation, which may have an adverse impact on our financial condition and operating results.

We have the ability to issue additional equity securities, which would lead to dilution of our issued and outstanding common stock and the new equity securities that we may issue could include preferred stock that is superior to the rights of holders our common stock

The issuance of additional equity securities or securities convertible into equity securities will result in dilution of existing stockholders' equity interests in us. Our board of directors has the authority to issue, without vote or action of stockholders, shares of preferred stock in one or more series, and has the ability to fix the rights, preferences, privileges and restrictions of any such series. Any such series of preferred stock could contain dividend rights, conversion rights, voting rights, terms of

redemption, redemption prices, liquidation preferences or other rights superior to the rights of holders of our common stock. Our board of directors has no present intention of issuing any such preferred stock, but reserves the right to do so in the future. In addition, we are authorized to issue, without stockholder approval, up to an aggregate of 200 million shares of common stock, of which 51,883,549 shares were outstanding as of June 27, 2005. We are also authorized to issue, without stockholder approval, securities convertible into either shares of common stock or preferred stock.

Section 404 of the Sarbanes-Oxley Act of 2002 and related rules adopted by the Securities and Exchange Commission require us to evaluate the adequacy of our internal controls over financial reporting

The Securities and Exchange Commission has adopted rules requiring public companies to include a report of management on internal controls over financial reporting in their annual reports on Form 10-K. The report of management must contain an assessment by management of the effectiveness of our internal controls over financial reporting. In addition, our independent registered public accounting firm must attest to and report on management's assessment of the effectiveness of the internal controls over financial reporting. These requirements will first apply to our Annual Report on Form 10-K for the fiscal year ending September 30, 2005. We are currently evaluating our internal control over financial reporting in order to ensure compliance with Section 404 and related SEC rules. If our internal control over financial reporting is not effective or the level at which these controls are documented, designed, operated or reviewed, investors may lose confidence in the reliability of our financial statements, which could negatively impact the market price of our common stock.

Our stock price has been and is likely to continue to be highly volatile

In recent years, the price of our common stock has fluctuated greatly. These price fluctuations have sometimes been rapid and severe. The price of our common stock may continue to fluctuate greatly in the future due to a variety of factors, including:

quarter to quarter variations in our operating results;

differences in our revenue or earnings from levels expected by securities analysts as well as changes in their recommendations;

changes in the ratings of our convertible subordinated debt;

announcements of technological innovations or new products by us or other companies; and

slowdowns or downturns in the semiconductor industry.

One or more of these factors could significantly harm our business and cause a decline in the price of our common stock in the public market, which could adversely affect your investment as well as our business and financial operations.

We do not expect to pay dividends on our common stock in the foreseeable future

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Although our shareholders may receive dividends if, as and when declared by our board of directors, we do not intend to pay dividends on our common stock in the foreseeable future. Therefore, you should not purchase our common stock if you need immediate or future income by way of dividends from your investment.

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USE OF PROCEEDS

Unless the applicable prospectus supplement for a particular issuance of securities states otherwise, the net proceeds we receive from the sale of the securities offered by this prospectus will be used for general corporate purposes, which may include:

funding the development and growth of our product offerings and business;

repaying indebtedness that we may incur from time to time;

financing potential business acquisitions that we may consider from time to time; and

general working capital.

Pending these uses, we may use the net proceeds to make short-term investments or reduce short-term borrowings.

RATIO OF EARNINGS TO FIXED CHARGES

The ratio of earnings to fixed charges for each of the periods indicated is as follows:

| | Fiscal Years Ended September 30, | | | | | Six Months |
|------------------------------------|---|-------------|-------------|-------------|-------------|---------------------------------|
| | 2000 | 2001 | 2002 | 2003 | 2004 | Ended March 31, 2005 |
| Ratio of earnings to fixed charges | 18X | | | | 6X | |

These computations include us and our consolidated subsidiaries. These ratios are computed by dividing (a) income (loss) before taxes from continuing operations plus fixed charges and equity in loss of joint ventures by (b) fixed charges, which includes interest expense plus the portion of rent expense under operating leases we deem to be representative of the interest factor and amortization of debt issuance costs.

We would have had to generate additional earnings of \$77.9 million in fiscal 2001, \$233.6 million in fiscal 2002, \$46.4 million in fiscal 2003 and \$11.7 million in the six months ended March 31, 2005 to achieve a ratio of 1:1

GENERAL DESCRIPTION OF SECURITIES

This prospectus, including any information incorporated by reference into this prospectus, together with the additional information included in any applicable prospectus supplements, contains a summary of the material terms and provisions of our common stock, preferred stock, debt securities, including senior debt securities, senior subordinated debt securities and subordinated debt securities consisting of notes, debentures or other evidence of indebtedness, warrants, and units consisting of two or more classes of these securities.

The securities offered by this prospectus may be offered in amounts, at prices and on terms to be determined at the time of the offering. The aggregate initial offering price of securities offered by us under this prospectus will not exceed \$250,000,000. These summaries are not meant to be a complete description of each security.

DESCRIPTION OF CAPITAL STOCK

The following is a general description of our capital stock. The terms of our amended and restated articles of incorporation and bylaws are more detailed than the general information provided below. Therefore, you should carefully read and consider the actual provisions of those documents, which are incorporated by reference as exhibits to the registration statement of which this prospectus forms a part.

Authorized Capital Stock

We are authorized to issue a total of 205,000,000 shares of our capital stock, each of which is without par value. Of the authorized amount, 200,000,000 of the shares are designated as common stock and 5,000,000 of the shares are designated as preferred stock.

Our board of directors may, without further action by our stockholders, issue a series of preferred stock and fix the rights and preference of those shares, including the dividend rights, dividend rates, conversion rights, exchange rights, voting rights, terms of redemption, redemption price or prices, liquidation and other preferences and priorities and the number of shares constituting any series or the designation of such series. The rights of the holders of common stock will be subject to, and may be adversely affected by, the rights of the holders of any preferred stock issued by us. All of the 5,000,000 authorized shares of preferred stock are currently undesignated.

As of June 27, 2005 there were 51,883,549 shares of common stock issued and outstanding, and no shares of preferred stock issued or outstanding.

Common Stock

General. Each share of our common stock has the same rights and privileges. Holders of our common stock do not have any preferences or any preemptive, conversion or exchange rights. All of our outstanding shares of common stock are fully paid and nonassessable. Our common stock is listed on the Nasdaq National Market under the symbol KLIC.

Voting Rights. The holders of our common stock are entitled to vote upon all matters submitted to a vote of our stockholders and are entitled to one vote for each share of common stock held. In the election of directors, the holders of our common stock have cumulative rights, meaning that they may multiply the number of votes they are entitled to cast by the total number of directors to be elected at a meeting of shareholders and cast the whole number of votes for one candidate or distribute them among some or all candidates.

Dividends. Subject to the prior rights and preferences, if any, applicable to shares of preferred stock or any series of preferred stock, or the restrictions set forth in any applicable indentures, the holders of common stock are entitled to participate ratably in dividends, payable in cash, stock or otherwise, as may be declared by our board of directors out of any funds legally available for the payment of dividends. Each such distribution shall be payable to holders of record as they appear on our stock transfer books on such record dates as shall be fixed by our board of directors.

Liquidation and Distribution. If we voluntarily or involuntarily liquidate, dissolve or wind-up, or upon any distribution of our assets, the holders of our common stock will be entitled to receive after distribution in full of the preferential amounts, if any, to be distributed to the holders of preferred stock or any series of preferred stock, all of the remaining assets available for distribution equally and ratably in proportion to the number of shares of common stock held by them.

Preferred Stock

General. The rights, preferences, privileges and restrictions of the preferred stock of each series will be fixed by the certificate of designation relating to each particular series. A prospectus supplement relating to each such series will specify the terms of the preferred stock as determined by our board of directors, including the following:

the title and stated value of the preferred stock being offered,

the number of shares of preferred stock being offered, their liquidation preference per share, if any, and their purchase price;

the dividend rate(s), period(s) and payment date(s) or method(s) of calculating the payment date(s) applicable to the preferred stock being offered;

whether dividends shall be cumulative or non-cumulative;

the provisions for redemption, if applicable, of the preferred stock being offered;

any listing of the preferred stock being offered on any securities exchange or market;

voting rights, if any, of the preferred stock being offered;

the relative ranking and preference of the series as to dividend rights and rights upon our dissolution or upon any distribution of our assets;

any limitations on issuance of any series of our preferred stock ranking senior to or on parity with that particular series of our preferred stock as to dividend rights and rights upon our dissolution or upon any distribution of our assets; and

any other specific terms, preferences, priorities, rights, limitations or restrictions of the preferred stock being offered.

The description of the preferred stock set forth above and in any description of the terms of a particular series of preferred stock in the related prospectus supplement will not be complete. You should refer to the applicable certificate of designation for such series of preferred stock for complete information with respect to such preferred stock. The prospectus supplement will also contain a description of certain United States federal income tax consequences relating to the preferred stock.

Although it has no present intention to do so, our board of directors, without stockholder approval, may issue preferred stock with voting and conversion rights that could adversely affect the voting power of the holders of common stock. If we issue preferred stock, it may have the effect of delaying, deferring or preventing a change in control.

Voting Rights. Holders of preferred stock will have voting rights as indicated in the applicable prospectus supplement.

Dividends. Holders of the preferred stock of each series will be entitled to receive, when, as and if declared by our board of directors, out of our funds legally available for payment to stockholders, dividends at such rates and on such dates as will be set forth in the applicable prospectus supplement. Each such distribution shall be payable to holders of record as they appear on our stock transfer books on such record dates as shall be fixed by our board of directors.

Liquidation and Distribution. If we voluntarily or involuntarily liquidate, dissolve or wind-up, or upon any distribution of our assets, the holders of our preferred stock will have the rights as stated in the applicable prospectus supplement.

Redemption. The terms and conditions, if any, upon which the preferred stock will be subject to mandatory redemption or redemption at our option, either in whole or in part, will be described in the applicable prospectus supplement.

Certain Charter and Bylaws Provisions

Some sections of our articles of incorporation and bylaws and provisions of Pennsylvania law may discourage certain transactions involving a change in control of the Company.

Our articles of incorporation and bylaws contain provisions that (i) classify the board of directors into four classes, with one class being elected each year, (ii) permit the board to issue blank check preferred stock without shareholder approval,

and (iii) prohibit us from engaging in certain business combinations with a holder of 20% or more of our shares without super-majority board or shareholder approval. Further, under the Pennsylvania Business Corporation Law, because our bylaws provide for a classified board of directors, shareholders may only remove directors for cause.

Kulicke and Soffa has opted out of several provisions of the Pennsylvania Business Corporation Law that could have the effect of delaying or interfering with a proposed change of control, but is also subject to other provisions of that law which could have those effects. Our directors are subject to a provision of the Pennsylvania Business Corporation Law that permits them to consider the interests of constituencies other than the shareholders when deciding what will be in the best interests of the Company. In addition, we are subject to two statutory provisions that are similar to the last provision of our articles of incorporation described above because the statutory provisions impose certain price and other requirements, and special approvals before a holder of 20% or more of our shares may engage in certain transactions.

Transfer Agent and Registrar

American Stock Transfer and Trust Company currently is the transfer agent and registrar for our common stock, with offices in New York, New York. The transfer agent and registrar for any shares of preferred stock we issue will be set forth in the applicable prospectus supplement.

DESCRIPTION OF DEBT SECURITIES

The following is a general description of the debt securities which we may issue from time to time. The particular terms relating to each debt security will be set forth in the applicable prospectus supplement.

The debt securities will be our direct obligations. The senior debt securities will rank equally with all of our other senior and unsubordinated debt. The senior subordinated debt securities will have a junior position to all of our senior debt. The subordinated debt securities will have a junior position to all of our senior debt and all of our senior subordinated debt. The senior debt securities will be issued under a senior debt indenture, the senior subordinated debt securities will be issued under a senior subordinated debt indenture, and the subordinated debt securities will be issued under a subordinated debt indenture. The indentures will be qualified under the Trust Indenture Act of 1939.

Each series of the debt securities will be issued under one of three indentures between Kulicke and Soffa and LaSalle Bank National Association, as trustee.

We have summarized below the material provisions of the indentures. The summary is not complete and is subject in all respects to the provisions of, and is qualified in its entirety by reference to, the forms of indentures, which are filed as exhibits and incorporated by reference into the registration statement of which this prospectus forms a part. You should read the indentures for provisions that may be important to you.

Terms Applicable to All Debt Securities

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No Limit on Debt Amounts. The indentures do not limit the amount of debt which can be issued under the indentures. These amounts are set from time to time by our board of directors.

Prospectus Supplements. The applicable prospectus supplement will summarize the specific terms for the debt securities and the related offering including, with respect to each series of debt securities, some or all of the following:

title and form of the securities;

offering price;

any limit on the amount that may be issued;

maturity date(s);

interest rate or the method of computing the interest rate;

dates on which interest will accrue, or how the dates will be determined, the interest payment dates and any related record dates;

the place or places where debt securities may be surrendered for registration of transfer or for exchange, where notices and demands to or upon us in respect of the debt securities and the indentures may be served and where notices to holders will be published;

terms and conditions on which the debt securities may be redeemed, in whole or in part, at our option;

date(s), if any, on which, and the price(s) at which we are obligated to redeem, or at the holder's option to purchase, in whole or in part, the debt securities and related terms and provisions;

details of any required sinking fund payments;

the currency or currencies in which the debt securities will be denominated or payable, if other than U.S. dollars;

any index, formula or other method by which payments on the debt securities will be determined, and any special voting or defeasance provisions in connection with a determination, if the amount of payments are to be determined with reference to an index, formula or other method;

the persons to whom payments of interest will be made;

any provisions granting special rights to holders when a specified event occurs;

any changes to or additional events of defaults or covenants;

any special tax implications of the debt securities; including under what circumstances, if any, and with what procedures and documentation we will pay additional amounts on the debt securities held by a non-U.S. person in respect of taxes, assessments or similar charges withheld or deducted and, if so, the terms related to any option we will have to redeem those debt securities rather than pay those additional amounts;

whether or not the debt securities will be issued in global form and who the depository will be;

any restrictions on the registration, transfer or exchange of the debt securities;

terms, if any, on which a series of debt securities may be convertible into or exchangeable for our common stock, preferred stock or other debt securities, including provisions as to whether conversion or exchange is mandatory, at the option of the holder or at our option;

if the debt securities are convertible or exchangeable, the events or circumstances which will result in adjustments to the conversion or exchange price and the formulae for determining the adjusted price;

whether the debt securities are secured or unsecured, and if secured, the amount and form of the security and related terms;

subordination terms of any senior subordinated debt securities and subordinated debt securities; and

any other terms that are not inconsistent with the indenture applicable to a series of debt securities, including any terms which may be required by or advisable under United States laws or regulations or advisable (as determined by us) in connection with the marketing of that series of debt securities.

A series of debt securities may be issued under the relevant indenture as original issue discount securities, which are securities that are offered and sold at a substantial discount from their stated principal amount. In addition, debt securities offered and sold at their stated principal amount may under some circumstances, pursuant to applicable Treasury Regulations, be treated as issued at an original issue discount for federal income tax purposes. Federal income tax consequences and other special considerations applicable to any such original issue discount securities (or other debt securities treated as issued at an original issue discount) will be described in the prospectus supplement relating to those securities.

Covenants. We will agree in the indentures to:

pay the principal, interest and any premium on the debt securities when due;

maintain an office or agency in New York City, where debt securities may be surrendered for registration of transfer or for exchange and where notices and demands to or upon us in respect of the debt securities and the relevant indenture(s) may be served;

prepare and file or deliver certain reports, as more fully specified in the relevant indenture, with the trustee under the relevant indenture, the SEC, and/or registered holders of debt securities, as the case may be;

deliver to the trustee under the relevant indenture, as more fully specified in that indenture, officers' certificates relating to our compliance under the relevant indenture and the occurrence of any default or event of default under that indenture;

file with the trustee under the relevant indenture and the SEC, in accordance with, and as may be required by, the rules and regulations prescribed from time to time by the SEC, the additional information, documents and reports with respect to compliance by the Company with the conditions and covenants provided for in the relevant indenture; and

unless our board of directors determines that it is no longer desirable in the conduct of our business and our significant subsidiaries, taken as a whole, and that there will be no adverse impact in any material respect to the holders of debt securities, subject to those exceptions as more fully specified in the relevant indenture, do or cause to be done all things necessary to preserve and keep in full force and effect:

our corporate existence, and the corporate, partnership or other existence of each of our significant subsidiaries, in accordance with their respective organizational documents;

the rights, licenses and franchises of us and certain of our subsidiaries; and

not at any time seek application of any applicable stay, extension or usury law that may affect the covenants or the performance under the indentures.

Consolidation, Merger and Sale of Assets. We will not consolidate with or merge into any other corporation or transfer all or substantially all of our assets unless:

we are the surviving corporation or the successor or surviving entity is organized or existing under the laws of the United States of America, any state thereof or the District of Columbia;

the successor or surviving entity assumes all of our obligations under the debt securities and the indentures pursuant to supplemental indentures in forms reasonably satisfactory to the trustee(s) under the relevant indentures; and

immediately after we consolidate or merge, no event of default and no event which, after notice or lapse of time, or both, would become an event of default, will have happened and be continuing.

Upon any consolidation, merger or transfer, the successor will be substituted for us under the indenture and we will be relieved of all obligations and covenants under the indenture and the debt securities, but we will not be relieved of the obligation to pay the principal of and interest on the debt securities, except in the case of a sale of all of our assets that meets the requirements stated in the immediately preceding paragraph.

Satisfaction and Discharge. Upon our request, the relevant indenture will no longer be effective with respect to any series for almost all purposes if either:

all outstanding securities of that series have been delivered to the trustee for cancellation and we have paid all sums payable in respect of that series; or

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the only securities which are still outstanding have, or within one year will, become due and payable or are to be called for redemption, we have deposited with the trustee funds which are sufficient to make all future payments, no default or event of default will have occurred and be continuing on the date of that deposit and that deposit will not result in a breach of any other instrument by which we are bound, we have paid all other sums payable in respect of that series, and we have delivered to the trustee a certificate and opinion of counsel that all conditions precedent to satisfaction and discharge have been fulfilled.

Legal Defeasance and Covenant Defeasance. Under each indenture, we may elect with respect to a series of debt securities at our option and subject to the satisfaction of the conditions described below, either:

to be deemed to have paid and discharged the entire indebtedness represented by the outstanding debt securities of the applicable series and to have satisfied all of our other obligations under the debt securities of the applicable series and under the provisions of the relevant indenture, which we refer to as legal defeasance; or

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to be released from some of our obligations under the relevant indenture, which we refer to as covenant defeasance.

We can exercise legal or covenant defeasance if we put in place the following arrangements:

we must irrevocably deposit with the applicable indenture trustee (or another trustee meeting certain eligibility requirements and agreeing to be bound by the applicable provisions of the relevant indenture), in trust, for the benefit of the holders of the applicable series of debt securities:

cash in United States dollars,

non-callable and non-redeemable direct obligations of the United States of America or of an agency or instrumentality controlled or supervised by the United States of America, in each instance, the payment of which is unconditionally guaranteed as a full faith and credit obligation of the United States of America, or

a combination of the foregoing,

sufficient, in the opinion of a nationally recognized firm of independent public accountants, to pay the principal of, interest and premium, if any, on the outstanding debt securities of the applicable series on their stated maturity or applicable redemption date, as the case may be, and any mandatory sinking fund payments applicable to that particular series of the debt securities on the day on which the payments are due;

we must deliver to the trustee an opinion of counsel confirming that the holders of the outstanding securities of the applicable series will not recognize income, gain or loss for federal income tax purposes as a result of the defeasance;

no default or event of default shall have occurred and be continuing on the date of the deposit of the amounts to be held in trust for the benefit of the holders (other than a default or event of default resulting from the borrowing of funds to be applied to the deposit) or in the case of any insolvency-related defaults, at any time in the period ending on the 91st day after the date of the deposit (or greater period of time in which any such deposit of trust funds may remain subject to bankruptcy or insolvency laws which apply to the deposit by us); and

we must deliver to the trustee an officers' certificate and an opinion of counsel, each stating that all conditions precedent provided for or relating to legal defeasance or covenant defeasance, as the case may be, have been complied with.

After satisfying the conditions for legal defeasance, the applicable debt securities will be deemed outstanding only for limited purposes as more fully set forth in the relevant indenture. After legal defeasance, the holders of outstanding debt securities will have to rely solely on the deposits we make to the trust for repayment on the debt securities.

After satisfying the conditions for covenant defeasance, the debt securities of the applicable series will be deemed not outstanding for the purposes of the covenants from which we have been released, but will continue to be deemed outstanding for all other purposes under the relevant indenture.

The applicable prospectus supplement may further describe additional provisions, if any, permitting legal defeasance or covenant defeasance, including any modifications to the provisions described above, with respect to the debt securities of or within a particular series.

Information Concerning the Trustee. The prospectus supplement with respect to particular debt securities will describe any relationship that we may have with the trustee for the debt securities offered. We may also maintain bank accounts, borrow money and have other customary banking or investment banking relationships with the trustee, or its affiliates, in the ordinary course of business.

Form, Exchange, Transfer. Unless otherwise specified in the prospectus supplement, debt securities will be issued in registered form without coupons, in denominations of \$1,000 or any integral multiple thereof. They may also be issued in global form with accompanying book-entry procedures as outlined below.

A holder of debt securities of any series can exchange the debt securities for other debt securities of the same series, in any authorized denomination and with the same terms and aggregate principal amount. They are transferable at the corporate trust office of the trustee or at any transfer agent designated by us for that purpose. No charge will be made for any such exchange or transfer except for any tax or governmental charge related to such exchange or transfer, other than exchanges not

involving any transfer such as the issuance of definitive securities in replacement of temporary securities or the issuance of new securities upon surrender of a security that is redeemed or purchased in part.

Global Securities. The registered debt securities may be issued in the form of one or more fully registered global securities that will be deposited with and registered in the name of a depositary or with a nominee for a depositary identified in the prospectus supplement.

The specific terms of the depositary arrangement with respect to any debt securities to be represented by a registered global security will be described in the prospectus supplement.

Ownership of beneficial interests in a registered global security will be limited to persons that have accounts with the depositary for such registered global security (participants) or persons that may hold interests through participants. Upon the issuance of a registered global security, the depositary will credit, on its book-entry registration and transfer system, the participants' accounts with the principal amounts of the debt securities represented by the registered global security beneficially owned by such participants. Ownership of beneficial interests in such registered global security will be shown on, and the transfer of such ownership interests will be effected only through, records maintained by the depositary for such registered global security or on the records of participants for interests of persons holding through participants.

So long as the depositary for a registered global security, or its nominee, is the registered owner of a registered global security, the depositary or the nominee will be considered the sole owner or holder of the debt securities represented by the registered global security for all purposes. Except as set forth below, owners of beneficial interests in a registered global security will not:

be entitled to have the debt securities represented by such registered global security registered in their names;

receive or be entitled to receive physical delivery of such debt securities in definitive forms; or

be considered the owners or holders of the debt securities.

Accordingly, each person owning a beneficial interest in a registered global security must rely on the procedures of the depositary for such registered global security and, if such person is not a participant, on the procedures of the participant through which such person owns its interest, to exercise any rights of a holder under the applicable indenture. We understand that under existing industry practices, if we request any action of holders, or if an owner of a beneficial interest in a registered global security desires to take any action which a holder is entitled to take under the applicable indenture, the depositary would authorize the participants holding the relevant beneficial interests to take such action, and such participants would authorize beneficial owners owning through such participants to take such action.

Principal, premium, if any, and interest payments on debt securities represented by a registered global security registered in the name of a depositary or its nominee will be made to such depositary or its nominee, as the case may be, as the registered owner of such registered global security. Neither we nor the trustee will have any responsibility or liability for any aspect of the records relating to or payment made on account of beneficial ownership interests in such registered global security.

We expect that the depositary for any debt securities represented by a registered global security, upon receipt of any payment of principal, premium or interest will immediately credit participants' accounts with payments in amounts proportionate to their respective beneficial interests

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in such registered global security as shown on the records of such depository. We also expect that payments by participants to owners of beneficial interest in such a registered global security held by the participants will be governed by standing customer instructions and customary practices, as is now the case with securities held for the accounts of customers in bearer form or registered in street name.

We may at any time determine not to have any of the debt securities of a series represented by one or more registered global securities and, in such event, will issue debt securities of such series in definitive form in exchange for all of the registered global security or securities representing such debt securities. Any debt securities issued in definitive form in exchange for a registered global security will be registered in such name or names as the depository shall instruct the relevant trustee. We expect that such instructions will be based upon directions received by the depository from participants with respect to ownership of beneficial interests in such registered global security.

If provided in a prospectus supplement relating to a series of debt securities, the debt securities of that series may also be issued in the form of one or more global securities that will be deposited with a common depository identified in the prospectus supplement. The specific terms and procedures, including the specific terms of the depository arrangement, with

respect to any portion of a series of debt securities to be represented by a global security will be described in the prospectus supplement.

Particular Terms of the Senior Debt Securities

Ranking of Senior Debt Securities. The senior debt securities will constitute part of our senior debt and rank equally with all our other senior and unsecured debt, except that it will be senior to our senior subordinated debt and subordinated debt.

Events of Default. The following are events of default under a series of senior debt securities:

we fail to pay the principal, any premium, if any, or any sinking fund payment, on any senior debt securities of that series when due;

we fail to pay interest on any senior debt securities of that series within 30 days following the due date;

we fail to observe or perform any other covenant, representation, warranty or other agreement in the senior indenture applicable to that series and that failure continues for 60 days after we receive notice to comply from the trustee or holders of at least 25% in aggregate principal amount of the outstanding senior debt securities of all series affected by that failure, treating all those series as a single class;

certain events of bankruptcy or insolvency occur, whether voluntary or not.

The prospectus supplement for a particular series may describe additional or different events of default that apply to that series. An event of default with respect to one series of senior debt securities does not necessarily constitute an event of default with respect to any other series of senior debt securities.

If a default or an event of default occurs and is continuing, and if a responsible officer of the trustee under the indenture has actual knowledge thereof, the trustee will mail to the holders of senior debt securities of the affected series a notice to that effect within 90 days after it occurs. Except in the case of a default in the payment of principal or interest, the trustee under the senior indenture may withhold notice if and so long as a committee of the trustee's responsible officers in good faith determines that withholding the notice is in the interests of the holders.

If an event of default with respect to one or more series of senior debt securities occurs and is continuing, the trustee or the holders of at least 25% in aggregate principal amount of the then outstanding senior debt securities of all series with respect to which the event of default occurs and is continuing, treating all those series as a single class, may declare the principal of, premium, if any, and accrued and unpaid interest of all the senior debt securities of those series to be immediately due and payable. The holders of a majority in aggregate principal amount of the then outstanding senior debt securities of all series covered by such declaration may annul or rescind the declaration.

The senior indenture entitles the trustee to be indemnified by the holders before proceeding to exercise any right or power at the request of any of the holders.

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The holders of a majority in principal amount of the outstanding senior debt securities of all series with respect to which an event of default occurs and is continuing, treating all those series as a single class, may direct the time, method and place of conducting any proceeding for any remedy available to the trustee or exercising any trust power conferred on it, except that:

the direction cannot conflict with any rule or the indenture;

the trustee may take any other action deemed proper by the trustee which is not inconsistent with the direction; and

the trustee need not take any action which might involve it in personal liability or be unduly prejudicial to the holders of the senior debt securities not joining in the action.

A holder may pursue a remedy directly under the indenture or the series of senior debt securities, but before doing so, the following must occur:

the holder must give to the trustee written notice that an event of default has occurred and is continuing;

the holders of at least 25% in principal amount of the then outstanding senior debt securities of all affected series, treating all those series as a single class, must make a written request to the trustee to pursue the remedy;

the holder, or holders, must offer and, if requested, provide to the trustee an indemnity satisfactory to the trustee against any loss, liability or expense from the taking of the action;

the trustee does not comply with the request within 60 days after receipt of the request and offer of indemnity; and

during the 60 day period, the holders of a majority in principal amount of the then outstanding senior debt securities of all those series, treating all those series as a single class, do not give the trustee a direction inconsistent with the written request.

However, holders have an absolute right to receipt of principal, premium, if any, and interest on or after the respective due dates and to institute suit for the enforcement of those payments. The right of a holder of senior debt securities to bring suit for the enforcement of any payments of principal, premium, if any, and interest on senior debt securities on or after the respective due dates may not be impaired or affected without the consent of that holder.

The holders of a majority in principal amount of the senior debt securities then outstanding of all affected series, treating all such series as a single class, may by notice to the trustee on behalf of all holders of the senior debt securities of such series waive any past defaults, except:

a continuing default in payment of the principal of, premium, if any, or interest on, or any sinking fund payment on, senior debt securities of the series; and

a continuing default in respect of a covenant or provision of the indenture which cannot be amended or modified without the consent of each holder of senior debt securities affected.

We will periodically file statements with the trustees regarding our compliance with covenants in the senior indenture.

Modifications and Amendments. Except as provided below, or more fully specified in the senior indenture, the senior indenture may be amended or supplemented by us and the trustee with the consent of holders of a majority in principal amount of all series of senior debt securities affected by the amendment or supplement, treating all such series as a single class. In addition, the record holders of a majority in principal amount of the outstanding senior debt securities of all series affected by the waiver, treating all such series as a single class, may, with respect to those series, waive defaults under, or compliance with, the provisions of the senior indenture. However, some amendments or waivers require the consent of each holder of any senior debt security affected. Without the consent of each holder, an amendment or waiver may not:

reduce the principal amount of the senior debt securities of any series whose holders must consent to an amendment, supplement or waiver;

reduce the principal or change the fixed maturity of the principal of, premium, if any, or mandatory sinking fund obligation, if any, of any senior debt securities of any series or alter the provisions with respect to the redemption of the senior debt securities;

reduce the rate, or change the time for payment, of interest, including default interest, on any senior debt security of any series;

waive a default or event of default in the payment of principal of, or interest or premium on, the senior debt securities of any series, except a rescission of acceleration of the senior debt securities by the holders of a majority in aggregate principal amount of the senior debt securities of any series and a waiver of the payment default that resulted from that acceleration;

make any senior debt security of any series payable in currency other than that stated in the senior debt securities of that series;

make any change in the provisions of the senior indenture relating to waivers of past defaults or the rights of the holders of senior debt securities to receive payments of principal of or interest or premium on the senior debt securities;

waive a redemption payment with respect to any senior debt security;

make any change in the right of any holders of senior debt securities regarding waivers of defaults or impair or affect the right of any holder of a senior debt security of any series to receive payment of principal, premium, if

any, and interest on that security on or after the due date expressed in that security or to bring suit for the enforcement of any payment on or after the due date; or

make any change in the above amendment and waiver provisions.

We and the trustee under the senior indenture may amend or supplement the senior indenture or the senior debt securities issued thereunder without the consent of any holder:

to evidence the succession of another person to us, or successive successions, and the assumption by the successors of our covenants, agreements and obligations under the indenture;

to add other covenants, restrictions or conditions for the protection of the holders of all or any series of senior debt securities;

to add events of default;

to provide for the issuance of senior debt securities in coupon form and to provide for exchangeability of those senior debt securities under the indenture in fully registered form;

to provide for the issuance of and to establish the form, terms and conditions of senior debt securities of any series;

to evidence and provide for the acceptance of appointment by a successor trustee and to add or change any of the provisions of the indenture necessary to provide for or facilitate the administration of the trusts under the indenture by more than one trustee;

to cure any ambiguity, or to correct or supplement any provision in the indenture which may be defective or inconsistent with any other provision contained in the indenture or in any supplemental indenture, or to make any other provisions with respect to matters or questions arising under that indenture, so long as the interests of holders of senior debt securities of any series are not adversely affected in any material respect under that indenture; or

to make any change that does not adversely affect the rights of any holder.

Particular Terms of the Senior Subordinated Debt Securities

Ranking of Senior Subordinated Debt Securities. The senior subordinated debt securities will rank senior to any subordinated debt securities and will be subordinated and junior in right of payment to any senior debt securities and certain other indebtedness of Kulicke & Soffa to the extent set forth in the applicable indenture. All series of the senior subordinated debt securities will rank equally with each other.

Subordination. Unless the prospectus supplement indicates otherwise, the following provisions will apply to the senior subordinated debt securities. Our obligations under the senior subordinated debt securities will be subordinated in right of payment to our obligations under our senior debt. For this purpose, senior debt generally includes any indebtedness that does not expressly provide that it is on a parity with or subordinated in right of payment to the senior subordinated debt securities. Specifically, senior debt includes obligations under any credit facility with banks or other institutional lenders and obligations under the senior debt securities described in this prospectus. Senior debt will not

include:

any liability for federal, state, local or other taxes;

any indebtedness to any of our subsidiaries or other affiliates;

any trade payables;

any indebtedness that we may incur in violation of the senior subordinated indenture; or

obligations under the subordinated debt securities.

If we distribute our assets to creditors upon any dissolution, winding-up, liquidation or reorganization or in bankruptcy, insolvency, receivership or similar proceedings, we must first pay all amounts due or to become due on all senior debt before we pay the principal of, or any premium or interest on, the senior subordinated debt securities.

We may not make any payment on the senior subordinated debt securities if a default in the payment of the principal, premium, if any, interest or other obligations, including a default under any repurchase or redemption obligation in respect of designated senior debt, occurs and continues beyond any applicable grace period. We may not make any payment on the

senior subordinated debt securities if any other default occurs and continues with respect to designated senior debt that permits holders of the designated senior debt to accelerate its maturity and the trustee receives a notice of default from us, a holder of designated senior debt or other person permitted to give notice. We may not resume payments on the senior subordinated debt securities until the defaults are cured or specified time periods pass, unless the maturity of the senior debt is actually accelerated.

The term *designated senior debt* means our obligations under any particular senior debt if the amount of that senior debt is at least the amount specified in the applicable prospectus supplement and the debt instrument expressly provides that the senior debt will be designated senior debt with respect to the senior subordinated debt securities.

We expect that the terms of some of our senior debt will provide that an event of default under the senior subordinated debt securities or an acceleration of their maturity will constitute an event of default under the senior debt. In that case, if the maturity of the senior subordinated debt securities is accelerated because of an event of default, we may not make any payment on the senior subordinated debt securities until we have paid all senior debt or the acceleration has been rescinded. If the payment of the senior subordinated debt securities is accelerated because of an event of default, we must promptly notify the holders of senior debt of the acceleration.

If we experience a bankruptcy, dissolution or reorganization, holders of senior debt may receive more, ratably, and holders of the senior subordinated debt securities may receive less, ratably, than our other creditors.

The indenture for senior subordinated debt securities may not limit our ability to incur additional senior debt.

The subordination provisions may not be amended in a manner adverse to the holders of the senior subordinated debt securities without the consent of the holders of at least 75% of the aggregate principal amount of senior subordinated debt securities then outstanding affected by the amendment, voting as a single class.

Events of Default. The following are events of default under a series of senior subordinated debt securities:

we fail to pay the principal, any premium, if any, or any sinking fund payment, on any senior subordinated debt securities of that series when due;

we fail to pay interest on any senior subordinated debt securities of that series within 30 days following the due date;

we fail to observe or perform any other covenant, representation, warranty or other agreement in the senior subordinated indenture applicable to that series and that failure continues for 60 days after we receive notice to comply from the trustee or holders of at least 25% in aggregate principal amount of the outstanding senior subordinated debt securities of all series affected by that failure, treating all those series as a single class;

certain events of bankruptcy or insolvency occur, whether voluntary or not.

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The prospectus supplement for a particular series may describe additional or different events of default that apply to that series. An event of default with respect to one series of senior subordinated debt securities does not necessarily constitute an event of default with respect to any other series of senior subordinated debt securities.

If a default or an event of default occurs and is continuing, and if a responsible officer of the trustee under the indenture has actual knowledge thereof, the trustee will mail to the holders of senior subordinated debt securities of the affected series a notice to that effect within 90 days after it occurs. Except in the case of a default in the payment of principal or interest, the trustee under the senior subordinated indenture may withhold notice if and so long as a committee of the trustee's responsible officers in good faith determines that withholding the notice is in the interests of the holders.

If an event of default with respect to one or more series of senior subordinated debt securities occurs and is continuing, the trustee or the holders of at least 25% in aggregate principal amount of the then outstanding senior subordinated debt securities of all series with respect to which the event of default occurs and is continuing, treating all those series as a single class, may declare the principal of, premium, if any, and accrued and unpaid interest (subject to applicable subordination provisions in the senior subordinated indenture) of all the senior subordinated debt securities of those series to be immediately due and payable. The holders of a majority in aggregate principal amount of the then outstanding senior subordinated debt securities of all series covered by such declaration may annul and rescind the declaration.

The senior subordinated indenture entitles the trustee to be indemnified by the holders before proceeding to exercise any right or power at the request of any of the holders.

The holders of a majority in principal amount of the outstanding senior subordinated debt securities of all series with respect to which an event of default occurs and is continuing, treating all those series as a single class, may direct the time, method and place of conducting any proceeding for any remedy available to the trustee or exercising any trust power conferred on it, except that:

the direction cannot conflict with any rule or the indenture;

the trustee may take any other action deemed proper by the trustee which is not inconsistent with the direction; and

the trustee need not take any action which might involve it in personal liability or be unduly prejudicial to the holders of the senior subordinated debt securities not joining in the action.

A holder may pursue a remedy directly under the senior subordinated indenture or the series of senior subordinated debt securities, but before doing so, the following must occur:

the holder must give to the trustee written notice that an event of default has occurred and is continuing;

the holders of at least 25% in principal amount of the then outstanding senior subordinated debt securities of all affected series, treating all those series as a single class, must make a written request to the trustee to pursue the remedy;

the holder, or holders, must offer and, if requested, provide to the trustee an indemnity satisfactory to the trustee against any loss, liability or expense from the taking of the action;

the trustee does not comply with the request within 60 days after receipt of the request and offer of indemnity; and

during the 60 day period, the holders of a majority in principal amount of the then outstanding senior subordinated debt securities of all those series, treating all those series as a single class, do not give the trustee a direction inconsistent with the written request.

However, holders have an absolute right to receipt of principal, premium, if any, and interest on or after the respective due dates and to institute suit for the enforcement of those payments. The right of a holder of senior subordinated debt securities to bring suit for the enforcement of any payments of principal, premium, if any, and interest on senior subordinated debt securities on or after the respective due dates may not be impaired or affected without the consent of that holder.

The holders of a majority in principal amount of the senior subordinated debt securities then outstanding of all affected series, treating all such series as a single class, may by notice to the trustee on behalf of all holders of the senior subordinated debt securities of such series waive any past defaults, except:

a continuing default in payment of the principal of, premium, if any, or interest on, or any sinking fund payment on, senior subordinated debt securities of the series; and

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a continuing default in respect of a covenant or provision of the indenture which cannot be amended or modified without the consent of each holder of senior subordinated debt securities affected.

We will periodically file statements with the trustees regarding our compliance with covenants in the senior subordinated indenture.

Modifications and Amendments. Except as provided below, or more fully specified in the senior subordinated indenture, the senior subordinated indenture may be amended or supplemented by us and the trustee with the consent of holders of a majority in principal amount of all series of senior subordinated debt securities affected by the amendment or supplement, treating all such series as a single class. In addition, the record holders of a majority in principal amount of the outstanding senior subordinated debt securities of all series affected by the waiver, treating all such series as a single class, may, with respect to those series, waive defaults under, or compliance with, the provisions of the senior subordinated indenture. However, some amendments or waivers require the consent of each holder of any senior subordinated debt security affected. Without the consent of each holder, an amendment or waiver may not:

reduce the principal amount of the senior subordinated debt securities of any series whose holders must consent to an amendment, supplement or waiver;

reduce the principal or change the fixed maturity of the principal of, premium, if any, or mandatory sinking fund obligation, if any, of any senior subordinated debt securities of any series or alter the provisions with respect to the redemption of the senior subordinated debt securities;

reduce the rate, or change the time for payment, of interest, including default interest, on any senior subordinated debt security of any series;

waive a default or event of default in the payment of principal of, or interest or premium on, the senior subordinated debt securities of any series, except a rescission of acceleration of the senior subordinated debt securities by the holders of a majority in aggregate principal amount of the senior subordinated debt securities of any series and a waiver of the payment default that resulted from that acceleration;

make any senior subordinated debt security of any series payable in currency other than that stated in the senior subordinated debt securities of that series;

make any change in the provisions of the senior subordinated indenture relating to waivers of past defaults or the rights of the holders of senior subordinated debt securities to receive payments of principal of or interest or premium on the senior subordinated debt securities;

waive a redemption payment with respect to any senior subordinated debt security;

make any change in the right of any holders of senior subordinated debt securities regarding waivers of defaults or impair or affect the right of any holder of a senior subordinated debt security of any series to receive payment of principal, premium, if any, and interest on that security on or after the due date expressed in that security or to bring suit for the enforcement of any payment on or after the due date; or

make any change in the above amendment and waiver provisions.

We and the trustee under the senior subordinated indenture may amend or supplement the senior subordinated indenture or the senior subordinated debt securities issued thereunder without the consent of any holder:

to evidence the succession of another person to us, or successive successions, and the assumption by the successors of our covenants, agreements and obligations under the senior subordinated indenture;

to add other covenants, restrictions or conditions for the protection of the holders of all or any series of senior subordinated debt securities;

to add events of default;

to provide for the issuance of senior subordinated debt securities in coupon form and to provide for exchangeability of those senior subordinated debt securities under the indenture in fully registered form;

to provide for the issuance of and to establish the form, terms and conditions of senior subordinated debt securities of any series;

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to evidence and provide for the acceptance of appointment by a successor trustee and to add or change any of the provisions of the indenture necessary to provide for or facilitate the administration of the trusts under the indenture by more than one trustee;

to cure any ambiguity, or to correct or supplement any provision in the indenture which may be defective or inconsistent with any other provision contained in the indenture or in any supplemental indenture, or to make any other provisions with respect to matters or questions arising under that indenture, so long as the interests of holders of senior subordinated debt securities of any series are not adversely affected in any material respect under that indenture; or

to make any change that does not adversely affect the rights of any holder.

Particular Terms of the Subordinated Debt Securities

Ranking of Subordinated Debt Securities. The subordinated debt securities will be subordinated and junior in right of payment to any senior debt securities and senior subordinated debt securities and certain other indebtedness of Kulicke & Soffa to the extent set forth in the prospectus supplement.

Subordination. Unless the prospectus supplement indicates otherwise, the subordination provisions of the subordinated debt securities will be the same as those of the senior subordinated debt securities just described, with the following exceptions:

Senior debt will include our obligations under the senior subordinated debt securities, as well as under the other debt specified above; and

different series of subordinated debt securities may rank senior to other series. In that case, our obligations under the higher-ranking series will be senior debt in relation to the lower-ranking series.

Events of Default. The following are events of default under a series of subordinated debt securities:

we fail to pay the principal, any premium, if any, or any sinking fund payment, on any subordinated debt securities of that series when due;

we fail to pay interest on any debt securities of that series within 30 days following the due date;

we fail to observe or perform any other covenant, representation, warranty or other agreement in the subordinated indenture applicable to that series and that failure continues for 60 days after we receive notice to comply from the trustee or holders of at least 25% in aggregate principal amount of the outstanding subordinated debt securities of that series and all other series that rank equal with that series and with respect to which that default has occurred, treating all those series as a single class;

certain events of bankruptcy or insolvency occur, whether voluntary or not.

The prospectus supplement for a particular series may describe additional or different events of default that apply to that series. An event of default with respect to one series of subordinated debt securities does not necessarily constitute an event of default with respect to any other series of subordinated debt securities.

If a default or an event of default occurs and is continuing, and if a responsible officer of the trustee under the indenture has actual knowledge thereof, the trustee will mail to the holders of subordinated debt securities of the affected series a notice to that effect within 90 days after it occurs. Except in the case of a default in the payment of principal or interest, the trustee under the subordinated indenture may withhold notice if and so long as a committee of the trustee's responsible officers in good faith determines that withholding the notice is in the interests of the holders.

If an event of default with respect to any series of subordinated debt securities occurs and is continuing, the trustee or the holders of at least 25% in aggregate principal amount of the then outstanding subordinated debt securities of that series and all other series that rank equal with that series and with respect to which the event of default occurs and is continuing, treating all those series as a single class, may declare the principal of, premium, if any, and accrued and unpaid interest (subject to applicable subordination provisions in the relevant indenture) of all the subordinated debt securities of those series to be immediately due and payable. The holders of a majority in aggregate principal amount of the then outstanding subordinated debt securities of all series covered by such declaration may annul and rescind the declaration.

The subordinated indenture entitles the trustee to be indemnified by the holders before proceeding to exercise any right or power at the request of any of the holders.

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The holders of a majority in principal amount of the outstanding subordinated debt securities of all series with respect to which an event of default occurs and is continuing and that rank equal with each other, treating all those series as a single class, may direct the time, method and place of conducting any proceeding for any remedy available to the trustee or exercising any trust power conferred on it with respect to those series, except that:

the direction cannot conflict with any rule or the subordinated indenture;

the trustee may take any other action deemed proper by the trustee which is not inconsistent with the direction; and

the trustee need not take any action which might involve it in personal liability or be unduly prejudicial to the holders of the subordinated debt securities not joining in the action.

A holder may pursue a remedy directly under the indenture or the series of subordinated debt securities, but before doing so, the following must occur:

the holder must give to the trustee written notice that an event of default has occurred and is continuing;

the holders of at least 25% in principal amount of the then outstanding subordinated debt securities of all affected series that rank equal with each other, treating all those securities as a single class, must make a written request to the trustee to pursue the remedy;

the holder, or holders, must offer and, if requested, provide to the trustee an indemnity satisfactory to the trustee against any loss, liability or expense from the taking of the action;

the trustee does not comply with the request within 60 days after receipt of the request and offer of indemnity; and

during the 60 day period, the holders of a majority in principal amount of the then outstanding subordinated debt securities of all those series, treating all those securities as a single class, do not give the trustee a direction inconsistent with the written request.

However, holders have an absolute right to receipt of principal, premium, if any, and interest on or after the respective due dates and to institute suit for the enforcement of those payments. The right of a holder of subordinated debt securities to bring suit for the enforcement of any payments of principal, premium, if any, and interest on subordinated debt securities on or after the respective due dates may not be impaired or affected without the consent of that holder.

The holders of a majority in principal amount of the subordinated debt securities then outstanding of all affected series that rank equal with each other, treating all such series as a single class, may by notice to the trustee on behalf of all holders of the subordinated debt securities of such series waive any past defaults, except:

a continuing default in payment of the principal of, premium, if any, or interest on, or any sinking fund payment on, subordinated debt securities of the series; and

a continuing default in respect of a covenant or provision of the indenture which cannot be amended or modified without the consent of each holder of each debt securities affected.

We will periodically file statements with the trustee regarding our compliance with covenants in the subordinated indenture.

Modifications and Amendments. Except as provided below, or more fully specified in the subordinated indenture, the subordinated indenture may be amended or supplemented by us and the trustee with the consent of holders of a majority in principal amount of each series of subordinated debt securities affected by the amendment or supplement, that rank equal with each other, treating all such series as a single class. In addition, the record holders of a majority in principal amount of the outstanding subordinated debt securities of all series affected by the waiver that rank equal with each other, treating all such series as a single class, may, with respect to those series, waive defaults under, or compliance with, the provisions of the subordinated indenture. However, some amendments or waivers require the consent of each holder of any subordinated debt security affected. Without the consent of each holder, an amendment or waiver may not:

reduce the principal amount of the subordinated debt securities of any series whose holders must consent to an amendment, supplement or waiver;

reduce the principal or change the fixed maturity of the principal of, premium, if any, or mandatory sinking fund obligation if any, of any subordinated debt securities of any series or alter the provisions with respect to the redemption of the subordinated debt securities;

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reduce the rate, or change the time for payment, of interest, including default interest, on any subordinated debt security of any series;

waive a default or event of default in the payment of principal of, or interest or premium on, the subordinated debt securities of any series, except a rescission of acceleration of the subordinated debt securities by the holders of a majority in aggregate principal amount of the subordinated debt securities of any series and a waiver of the payment default that resulted from that acceleration;

make any subordinated debt security of any series payable in currency other than that stated in the debt securities of that series;

make any change in the provisions of the subordinated indenture relating to waivers of past defaults or the rights of the holders of subordinated debt securities to receive payments of principal of or interest or premium on the subordinated debt securities;

waive a redemption payment with respect to any subordinated debt security;

make any change in the right of any holders of subordinated debt securities regarding waivers of defaults or impair or affect the right of any holder of a subordinated debt security of any series to receive payment of principal, premium, if any, and interest on that security on or after the due date expressed in that security or to bring suit for the enforcement of any payment on or after the due date; or

make any change in the above amendment and waiver provisions.

We and the trustee under the subordinated indenture may amend or supplement the subordinated indenture or the subordinated debt securities issued thereunder without the consent of any holder:

to evidence the succession of another person to us, or successive successions, and the assumption by the successors of our covenants, agreements and obligations under the subordinated indenture;

to add other covenants, restrictions or conditions for the protection of the holders of all or any series of subordinated debt securities;

to add events of default;

to provide for the issuance of subordinated debt securities in coupon form and to provide for exchangeability of those debt securities under the indenture in fully registered form;

to provide for the issuance of and to establish the form, terms and conditions of subordinated debt securities of any series;

to evidence and provide for the acceptance of appointment by a successor trustee and to add or change any of the provisions of the indenture necessary to provide for or facilitate the administration of the trusts under the indenture by more than one trustee;

to cure any ambiguity, or to correct or supplement any provision in the indenture which may be defective or inconsistent with any other provision contained in the indenture or in any supplemental indenture, or to make any other provisions with respect to matters or questions arising under that indenture, so long as the interests of holders of debt securities of any series are not adversely affected in any material respect under that indenture; or

to make any change that does not adversely affect the rights of any holder.

In determining whether two or more series of subordinated debt securities rank equal with each other for purposes of the default, waiver and amendment provisions described above, a series that is convertible into equity securities of us is not equal with a series that is not so convertible.

DESCRIPTION OF WARRANTS

The following description describes the general terms and provisions of the warrants to which any prospectus supplement may relate. The prospectus supplement relating to the warrants will describe the particular term of the warrants and the extent, if any, to which these general provisions may apply to the warrants offered.

We may issue warrants to purchase senior debt securities, senior subordinated debt securities, subordinated convertible debt securities, preferred stock, depositary shares, common stock or any combination thereof. The warrants may be issued independently or together with any other securities and may be attached or separate from the other securities. Each series of warrants will be issued under a separate warrant agreement to be entered into between a warrant agent and us. The warrant agent will act solely as our agent in connection with the warrants of any series and will not assume any obligation or relationship of agency for or with holders or beneficial owners of warrants.

The applicable prospectus supplement will describe the terms of any warrants and the related offering in respect of which this prospectus is being delivered, including the following:

the title of the warrants;

the aggregate number of the warrants;

the price or prices at which the warrants will be issued;

the designation and terms of the underlying securities purchasable upon exercise of the warrants and the number of such underlying securities issuable upon exercise of the warrants;

the price or prices at which the warrants may be exercised to purchase the securities underlying them;

the date on which the right to exercise the warrants shall commence and the date on which the right shall expire;

whether the warrants will be issued in registered form or bearer form;

if applicable, the minimum or maximum amount of the warrants which may be exercised at any one time;

if applicable, the designation and terms of the other securities with which the warrants are issued and the number of such warrants issued with each such underlying warrant security;

if applicable, the date on and after which the warrants and other securities will be separately transferable;

information with respect to book-entry procedures, if any;

if applicable, a discussion of certain United States federal income tax considerations;

the procedures and conditions relating to the exercise of the warrants; and

any other terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants.

DESCRIPTION OF UNITS

We may issue units consisting of common stock, warrants, debt securities, preferred stock or any combination of those securities. The applicable prospectus supplement will describe the terms of any units including the following:

the terms of the units and each of the securities included in the units, including whether and under what circumstances the securities included in the units may or may not be traded separately;

the terms of any unit agreement governing the units; and

the provisions for the payment, settlement, transfer or exchange of the units.

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PLAN OF DISTRIBUTION

We may sell the securities being offered hereby in any of, or any combination of, the following ways: directly to purchasers; through agents; through underwriters; and/or through dealers.

Offers to purchase the securities may be solicited by agents designated by us from time to time. Any agent involved in the offer or sale of the securities under this prospectus will be named, and any commissions payable by us to these agents will be set forth, in a related prospectus supplement. Unless otherwise indicated in a prospectus supplement, any agent will be acting on a reasonable best efforts basis for the period of its appointment. Any agent may be deemed to be an underwriter, as that term is defined in the Securities Act, of the securities so offered and sold.

If the securities are sold by means of an underwritten offering, we will execute an underwriting agreement with an underwriter or underwriters at the time an agreement for such sale is reached, and the names of the specific managing underwriter or underwriters, as well as any other underwriters, the respective amounts underwritten and the terms of the transaction, including commissions, discounts and any other compensation of the underwriters and dealers, if any, will be set forth in the related prospectus supplement. That prospectus supplement and this prospectus will be used by the underwriters to make resales of the securities. If underwriters are used in the sale of any securities in connection with this prospectus, those securities will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions, including negotiated transactions, at fixed public offering prices, at market prices prevailing at the time of sale, or at prices related to such prevailing market prices.

Securities may be offered to the public either through underwriting syndicates represented by managing underwriters or directly by one or more underwriter. If any underwriter or underwriters are used in the sale of securities, unless otherwise indicated in a related prospectus supplement, the underwriting agreement will provide that the obligations of the underwriters are subject to some conditions precedent and that the underwriters with respect to a sale of these securities will be obligated to purchase all such securities if any are purchased.

We may grant to the underwriters options to purchase additional securities, to cover over-allotments, if any, at the public offering price, with additional underwriting commissions or discounts, as may be set forth in a related prospectus supplement. If we grant any over-allotment option, the terms of that over-allotment option will be set forth in the related prospectus supplement.

If we use a dealer in the sale of the securities in respect of which this prospectus is delivered, we will sell the securities to the dealer as principal. The dealer may then resell such securities to the public at varying prices to be determined by such dealer at the time of resale. Any such dealer may be deemed to be an underwriter, as such term is defined in the Securities Act, of the securities so offered and sold. The name of the dealer and the terms of the transaction will be set forth in the prospectus supplement relating to those offers and sales.

We may also directly solicit offers to purchase securities and those sales may be made by us directly to institutional investors or others, who may be deemed to be underwriters within the meaning of the Securities Act with respect to any resale of those securities. The terms of any sales of this type will be described in the prospectus supplement.

Agents, underwriters and dealers may be entitled under relevant agreements with us to indemnification by us against some liabilities, including liabilities under the Securities Act, or to contributions with respect to payments which such agents, underwriters and dealers may be required to make in respect thereof.

Agents, underwriters and dealers may engage in transactions that stabilize maintain or otherwise affect the price of the securities being offered, including over-allotment, stabilizing and short-covering transactions in such securities, and the imposition of a penalty bid, in connection with the offering.

In connection with the offering of securities, the underwriters may make short sales of our shares and purchase these shares on the open market to cover positions created by short sales. Such sales involve the sale by the underwriters of shares that they are required to purchase in an offering. Short sales may be either covered or naked. Covered short sales are sales made in an amount not greater than the underwriters over-allotment option to purchase additional shares in the offering; naked short sales are sales in excess of the over-allotment option. Underwriters may close out a covered short position either by exercising their over-allotment option or purchasing shares in the open market; naked short positions must be closed by purchasing shares in the open market. Naked short positions are more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the shares in the open market after pricing that could adversely affect

investors who purchase in the offering. The underwriters' purchases to cover syndicate short sales may raise or maintain the market price of the stock or prevent or retard a decline in the market price of the stock. As a result, the price of the stock may be higher as a result of syndicate short sales than it would otherwise be in an open market.

Agents, underwriters and dealers may be customers of, engage in transactions with, or perform services for, us in the ordinary course of our business.

LEGAL MATTERS

Certain legal matters in connection with the legality of any common stock, preferred stock, debt securities and warrants offered hereby will be passed upon for us by Drinker Biddle & Reath LLP, Philadelphia, Pennsylvania.

EXPERTS

The consolidated financial statements incorporated into this prospectus by reference to Kulicke and Sofa Industries, Inc.'s Annual Report on Form 10-K for the year ended September 30, 2004 have been so incorporated in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement (including the exhibits, schedules and amendments to the registration statement) under the Securities Act for the securities offered by this prospectus. This prospectus does not contain all of the information set forth in the registration statement, portions of which are omitted as permitted by the rules and regulations of the SEC. For further information pertaining to us and the securities offered by this prospectus, please refer to the registration statement. Statements contained in this prospectus as to the contents of any contract, agreement or other document referred to, are not necessarily complete and, where the contract, agreement or other document is an exhibit to the registration statement, each statement is qualified in all respects by the provisions of the exhibit, to which reference is now made.

We file annual, quarterly and current reports, proxy statements, and other information with the SEC. These reports, proxy statements, and other information concerning us can be read and copied at the SEC's Public Reference Room at 100 F. Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC 0330 for further information on the Public Reference Room. The SEC maintains an internet site at <http://www.sec.gov> that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, including us. Our common stock is listed on the Nasdaq National Market under the symbol KLIC. These reports, proxy statements, and other information are also available at the following Nasdaq address: Nasdaq Operations, 1735 K Street, N.W., Washington, D.C. 20006. We maintain a website with the address www.kns.com. We are not including the information contained on our website as part of, or incorporating it by reference into, this prospectus.

Any information in documents incorporated by reference into this prospectus is considered part of this prospectus. We incorporate by reference the documents listed below which have been filed with the SEC:

Our Annual Report on Form 10-K for our fiscal year ended September 30, 2004;

Our Quarterly Reports on Form 10-Q for our fiscal quarters ended December 31, 2004 and March 31, 2005;

Our Current Reports on Form 8-K filed on October 5, 2004, December 3, 2004, January 14, 2005, February 11, 2005, March 16, 2005, April 28, 2005 (Item 2.05 only), and June 13, 2005;

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The description of our common stock contained in our registration statement on Form 8-A12G/A filed on July 17, 2000; and

Any future filings we make under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, including any filings after the date of this registration statement until we terminate this offering.

Any statement contained in a document incorporated by reference into this prospectus will be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or in any subsequently filed document that is incorporated by reference modifies or supersedes such statement. Any statement that is modified or superseded shall not, except as so modified or superseded, constitute a part of this prospectus.

We will provide to you without charge, upon receipt of your written or oral request, a copy of any or all of the documents which are incorporated by reference into this prospectus, other than exhibits which are not specifically incorporated by reference into such documents. You should direct written or telephone requests to Investor Relations

Department, Kulicke and Soffa Industries, Inc., 2101 Blair Mill Road, Willow Grove, Pennsylvania 19090, telephone (215) 784-6000.

Our logo appearing on the front and back covers of this prospectus and Maxum, Maxum Plus, Nu-Tek, WaferPRO, Triton RDA, and DuraPlus are trademarks of Kulicke and Soffa Industries, Inc. Other brands, names and trademarks contained in this prospectus are the property of their respective owners.

PART II**INFORMATION NOT REQUIRED IN PROSPECTUS****ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION**

The following table sets forth the expenses expected to be incurred by Kulicke & Soffa in connection with the issuance and distribution of the securities registered hereby, other than underwriting fees and discounts. All of these expenses, except for the registration fee, are estimates:

| | |
|---|-------------------|
| Securities and Exchange Commission Registration Fee | \$ 23,000 |
| Printing and Engraving Expenses | \$ 20,000 |
| Legal Fees and Expenses | \$ 90,000 |
| Accounting Fees and Expenses | \$ 56,000 |
| Trustee's Fees and Expenses | \$ 12,000 |
| Miscellaneous Expenses | \$ 8,000 |
| | <hr/> |
| Total | \$ 209,000 |
| | <hr/> |

ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS

Our By-laws require us to indemnify any person who is or was a party or witness in any threatened, pending or completed action, suit or proceeding, regardless of whether the action, suit or proceeding was brought by a third party or by or in the right of the Company, by reason of the fact that he or she is or was a director or officer of the Company or is or was serving while a director or officer at our request as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against expenses (including attorney's fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with such proceeding, except to the extent such indemnification is prohibited by applicable law. Our By-laws provide that such persons are automatically entitled to advances from us for the payment of certain expenses incurred by such person upon receipt of an undertaking by or on behalf of the person to repay such advances if it is ultimately determined that the person is not entitled to indemnification by us. Notwithstanding anything to the contrary, we are not obligated to indemnify any person or advance expenses with respect to any action, suit or proceeding commenced by the person, other than mandatory counterclaims and affirmative defenses. The Company may indemnify employees and agents of the Company, and advance expenses to them, on the same basis as provided in our By-laws for directors and officers, as the board of directors of the Company may from time to time determine or authorize. In addition, the registration rights agreement pursuant to which the registration statement was filed provides that we and the selling securityholders will indemnify each other and each other's directors, officers and controlling persons against specified liabilities, including liabilities under the Securities Act, or that we will be entitled to contribution from each other in connection with these liabilities.

ITEM 16. EXHIBITS

(a) The following exhibits are furnished with this registration statement.

ITEM

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**EXHIBIT
NUMBER**

- 2(i) Agreement and Plan of Merger, dated as of October 11, 2000, by and among Kulicke and Soffa Industries, Inc., Cardinal Merger Sub., Inc. and Cerprobe Corporation is incorporated herein by reference from Exhibit D(1) to the Company's Form TO filed on October 25, 2000.
- 2(ii) Asset Purchase Agreement, dated as of February 6, 2004, between Flip Chip International, LLC and Flip Chip Technologies, LLC, filed as Exhibit 2.1 to the Company's Form 10-Q for the quarterly period ended March 31, 2004, is incorporated herein by reference.
- 3(i) The Company's Form of Amended and Restated Articles of Incorporation dated June 14, 2002, filed as Exhibit 3.1 to the Company's quarterly report on Form 10-Q for the quarterly period ended June 30, 2002, is incorporated herein by reference.

| EXHIBIT NUMBER | ITEM |
|------------------------|---|
| 3(ii) | The Company's By-Laws, as amended and restated on February 8, 2005, filed as Exhibit 3(ii) to the Company's Form 10-Q for the quarterly period ended December 31, 2004, are incorporated herein by reference. |
| 4(i) | Specimen Common Share Certificate of Kulicke and Soffa Industries, Inc., filed as Exhibit 4 to the Company's Form 8-A12G/A dated September 11, 1995, SEC file number 000-00121, is incorporated herein by reference. |
| 4(ii) | Indenture dated as of November 26, 2003 between the Company and J.P. Morgan Trust Company, National Association, as Trustee, filed as Exhibit 4.1 to the Company's Form 8-K dated December 5, 2003, is incorporated herein by reference. |
| 4(iii) | Registration Rights Agreement dated as of November 26, 2003, between the Company and Deutsche Bank Securities Inc. as Initial Purchaser, filed as Exhibit 4.2 to the Company's Form 8-K dated December 5, 2003, is incorporated herein by reference. |
| 4(iv) | Indenture dated as of June 30, 2004 between the Company and J.P. Morgan Trust Company, National Association, as Trustee, filed as Exhibit 4.1 to the Company's quarterly report on Form 10-Q for the quarterly period ended June 30, 2004, is incorporated herein by reference. |
| 4(v) | Registration Rights Agreement dated as of June 30, 2004, between the Company and Merrill Lynch, Pierce, Fenner & Smith Incorporated, as Initial Purchaser, filed as Exhibit 4.2 to the Company's quarterly report on Form 10-Q for the quarterly period ended June 30, 2004, is incorporated herein by reference. |
| 4(vi) ⁽¹⁾ | Form of senior debt securities indenture. |
| 4(vii) ⁽¹⁾ | Form of senior subordinated debt securities indenture. |
| 4(viii) ⁽¹⁾ | Form of subordinated debt securities indenture. |
| 4(ix) ⁽¹⁾ | Form of any senior debt security. |
| 4(x) ⁽¹⁾ | Form of any senior subordinated debt security. |
| 4(xi) ⁽¹⁾ | Form of any subordinated debt security. |
| 4(xii) ⁽²⁾ | Form of any certificate of designation with respect to any preferred stock. |
| 4(xiii) ⁽²⁾ | Form of unit agreement. |
| 4(xiv) ⁽²⁾ | Form of debt warrant agreement for warrants sold alone, including form of warrant. |
| 4(xv) ⁽²⁾ | Form of debt warrant agreement for warrants sold attached to debt securities, including form of warrant. |
| 4(xvi) ⁽²⁾ | Form of equity warrant agreement for warrants sold alone, including form of warrant. |
| 5 ⁽¹⁾ | Opinion of Drinker Biddle & Reath LLP. |
| 12 | Computation of Ratio of Earnings to Fixed Charges. |
| 23(i) | Consent of PricewaterhouseCoopers LLP (Independent Registered Public Accounting Firm). |
| 23(ii) ⁽¹⁾ | Consent of Drinker Biddle & Reath LLP (included in Exhibit 5). |
| 24(i) ⁽¹⁾ | Power of Attorney. |
| 24(ii) ⁽¹⁾ | Certified Resolutions. |
| 25(i) ⁽¹⁾ | Statement of Eligibility on Form T-1 under the Trust Indenture Act of 1939, as amended, of LaSalle Bank National Association, as trustee under the indenture with respect to the senior debt securities. |
| 25(ii) ⁽¹⁾ | Statement of Eligibility on Form T-1 under the Trust Indenture Act of 1939, as amended, of LaSalle Bank National Association, as trustee under the indenture with respect to the senior subordinated debt securities. |
| 25(iii) ⁽¹⁾ | Statement of Eligibility on Form T-1 under the Trust Indenture Act of 1939, as amended, of LaSalle Bank National Association, as trustee under the indenture with respect to the senior subordinated debt securities. |
| 25 ⁽¹⁾ | Form T-1 Statement of Eligibility of Trustee for Indenture under the Trust Indenture Act of 1939. |

(1) Previously filed.

(2) To be filed as an exhibit, if appropriate.

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ITEM 17. UNDERTAKINGS

(a) The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement.

provided, however, that clauses (i) and (ii) do not apply if the information required to be included in a post-effective amendment by such clauses is contained in periodic reports filed with or furnished to the Securities and Exchange Commission by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The undersigned registrant hereby further undertakes that, for the purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in this registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

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(c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted against the registrant by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Act and will be governed by the final adjudication of such issue.

(d) The undersigned registrant hereby further undertakes that:

(1) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this Registration Statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this Registration Statement as of the time it was declared effective; and

(2) For purposes of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of Willow Grove, Commonwealth of Pennsylvania, on June 30, 2005.

KULICKE AND SOFFA INDUSTRIES, INC.

By: /s/ Maurice E. Carson
Maurice E. Carson
Vice President and Chief Financial Officer

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

| <u>NAMES</u> | <u>CAPACITY</u> | <u>DATE</u> |
|----------------------------------|---|---------------|
| <u>/s/ C. Scott Kulicke</u> | Chairman and Chief Executive Officer | June 30, 2005 |
| C. Scott Kulicke | (Principal Executive Officer) | |
| <u>/s/ Maurice E. Carson</u> | Vice President and Chief Financial | June 30, 2005 |
| Maurice E. Carson | Officer (Principal Financial and Accounting Officer) | |
| <u>*/s/ Brian R. Bachman</u> | Director | June 30, 2005 |
| Brian R. Bachman | | |
| <u>*/s/ Philip V. Gerdine</u> | Director | June 30, 2005 |
| Philip V. Gerdine | | |
| <u>*/s/ John A. O Steen</u> | Director | June 30, 2005 |
| John A. O Steen | | |
| <u>*/s/ MacDonell Roehm, Jr.</u> | Director | June 30, 2005 |
| MacDonell Roehm, Jr. | | |
| <u>*/s/ Barry Waite</u> | Director | June 30, 2005 |
| Barry Waite | | |
| <u>*/s/ C. William Zadel</u> | Director | June 30, 2005 |

C. William Zadel

Power of Attorney:

*By: /s/ C. Scott Kulicke
C. Scott Kulicke

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EXHIBIT INDEX

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