

KULICKE & SOFFA INDUSTRIES INC
Form POS AM
June 30, 2005
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As filed with the Securities and Exchange Commission on June 30, 2005

Registration No. 333-119406

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

POST-EFFECTIVE AMENDMENT NO. 5
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

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(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: As soon as practicable after the effective date of this Registration Statement.

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.

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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. "

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. "

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\$65,000,000

**1% Convertible Subordinated Notes due 2010 and
the Common Stock issuable upon conversion of the Notes**

We issued the notes in a private placement in June 2004. This prospectus will be used by selling securityholders to resell up to \$65,000,000 aggregate principal amount of their notes and the common stock issuable upon conversion of their notes.

The notes are convertible, at the option of the holder, at any time on or before the final maturity date into shares of our common stock. The notes are convertible at an initial conversion rate of 77.8743 shares per \$1,000 principal amount of notes (equivalent to a conversion price of approximately \$12.84 per share), subject to adjustment. We pay interest on the notes on June 30 and December 30 of each year, beginning on December 30, 2004. The notes will mature on June 30, 2010, unless earlier converted or purchased by us at your option upon a fundamental change.

Your conversion rights may be terminated on or after June 30, 2006. We have five trading days after a conversion termination trigger event to notify you that we are terminating your conversion rights. A conversion termination trigger event occurs if the closing price of our common stock has exceeded 140% of the conversion price then in effect for at least 20 trading days within a period of 30 consecutive trading days. You may convert your notes at any time on or before the 20th day following the date of our notice of termination of your conversion rights.

Upon a fundamental change relating to Kulicke and Soffa Industries, Inc., each holder of the notes may require us to repurchase all or a portion of the notes for cash at a price equal to the principal amount of such notes, plus accrued but unpaid interest, and liquidated damages, if any, to the date of purchase. In certain circumstances, we will pay a make-whole premium, payable in cash, upon a fundamental change.

The notes are our unsecured subordinated obligations, rank junior in right of payment to all of our existing and future senior indebtedness, and are structurally subordinated to all indebtedness and other liabilities, including trade payables, of our subsidiaries.

The selling securityholders may sell the securities at fixed prices, prevailing market prices at the time of sale, varying prices determined at the time of sale, or negotiated prices. See **Plan of Distribution** beginning on page 35 of this prospectus. Our common stock is traded on the Nasdaq National Market under the symbol **KLIC**. On June 29, 2005, the last reported sale price of our common stock was \$7.79 per share.

Investing in the securities offered hereby involves risks. See **Risk Factors beginning on page 4 of this prospectus.**

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Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the notes or the common stock issuable upon conversion of the notes or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

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.

You should rely only on the information contained in, or incorporated by reference into, this prospectus. 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 notes and underlying common stock, including the merits and risks involved.

We are not making any representation to any purchaser of the notes or the underlying common stock regarding the legality of an investment in the notes or the underlying common stock 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 notes or the underlying common stock.

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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 Securities and Exchange Commission (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.

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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 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, 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.

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The Offering

Issuer	Kulicke and Soffa Industries, Inc.
Notes Offered	\$65 million aggregate principal amount of 1% Convertible Subordinated Notes due June 30, 2010.
Interest	1% per year on the principal amount, payable semi-annually on June 30 and December 30 of each year, beginning on December 30, 2004.
Maturity	June 30, 2010.
Ranking	<p>The notes are subordinated in right of payment to all of our senior indebtedness and are structurally subordinated to all indebtedness and other liabilities, including trade payables, of our subsidiaries. The notes rank equally with our 0.5% Convertible Subordinated Notes due 2008.</p> <p>As of March 31, 2005, we had senior indebtedness outstanding in the amount of approximately \$14.6 million, and our subsidiaries had approximately \$84.5 million of liabilities outstanding, excluding liabilities owed to us. Neither we nor our subsidiaries are prohibited from incurring debt, including senior indebtedness, under the indenture governing the notes. See Description of Certain Other Indebtedness.</p>
Conversion Rights	<p>You may convert each note into shares of our common stock (unless your right to convert is terminated as described under Termination of Conversion Right below) at an initial conversion rate of 77.8743 shares per \$1,000 principal amount of notes, which is equal to a conversion price of approximately \$12.84 per share, subject to adjustment upon specified events, at any time on or before the final maturity date.</p> <p>In addition, if we declare a cash dividend or distribution to all or substantially all of the holders of our common stock (other than a dividend or distribution in connection with our liquidation, dissolution or winding up), the conversion rate will be increased to equal the number determined by multiplying the conversion rate in effect immediately before the record date for such dividend or distribution by the following fraction:</p> $\frac{\text{(Pre-Dividend Sale Price)}}{\text{(Pre-Dividend Sale Price - Dividend Adjustment Amount)}}$ <p>Pre-Dividend Sale Price means the average of the last reported sale price of our common stock for the three consecutive trading days ending on the trading day immediately preceding the ex-dividend date for such dividend or distribution.</p> <p>Dividend Adjustment Amount means the full amount of the dividend or distribution to the extent payable in cash applicable to one share of common stock. Upon conversion, the holder will not receive any cash payment representing accrued but unpaid interest or liquidated damages, if any. See Description of Notes Conversion of the Notes.</p>

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Termination of Conversion Right	Your conversion rights may be terminated on or after June 30, 2006. We have five trading days after a conversion termination trigger event to notify you that we are terminating your conversion rights. A conversion termination trigger event occurs if the closing price of our common stock has exceeded 140% of the conversion price then in effect for at least 20 trading days within a period of 30 consecutive trading days. You may convert your notes at any time on or before the 20th day following the date of our notice of termination of your conversion rights. See Description of Notes Termination of Conversion Right.
Sinking Fund	None.
Fundamental Change	If a fundamental change (as described under Description of Notes Fundamental Change) occurs before maturity, you may require us to purchase all or part of your notes for cash at a purchase price equal to 100% of their principal amount, plus accrued but unpaid interest, and liquidated damages, if any, to the date of purchase. In addition, in certain circumstances, we will pay a make-whole premium, payable in cash, upon a fundamental change.
Use of Proceeds	We will not receive any of the proceeds from the sale by any selling securityholder of the notes or the underlying common stock.
PORTAL SM Trading of Notes	The notes are eligible for trading in The PORTAL SM Market of the National Association of Securities Dealers, Inc.
Listing of Common Stock	Our common stock is listed on the Nasdaq National Market under the symbol KLIC.
Ratio of Earnings to Fixed Charges	Our ratio of earnings to fixed charges for fiscal 2000 was 18X and for fiscal 2004 was 6X. 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
Risk Factors	Investing in the notes and common stock issuable upon conversion of the notes involves risks. See Risk Factors and the other information contained elsewhere in this prospectus or incorporated by reference into this prospectus for a description of certain risks you should consider before making an investment decision.

Recent Development

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 and additional tests that we performed on our test segment long-lived assets, on June 9, 2005 the audit committee of our board of directors, on the recommendation of management, concluded a test segment goodwill and intangible assets impairment charge is required. The impairment charge is estimated to be between \$90.0 million and \$110.0 million. We will record this impairment charge, which will not result in any future cash expenditures by us, during the quarter ended June 30, 2005.

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In performing the impairment tests, we determined that the total of the expected future discounted (or undiscounted for the intangible assets impairment test) cash flows directly related to the test segment was less than the carrying value of the net assets of the test segment. We expect to finalize the dollar amount of this non-cash charge prior to filing our Quarterly Report on Form 10-Q for the three months ended June 30, 2005. See Risk Factors Our test business presents significant management and operating challenges for information regarding risks associated with our test business.

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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 notes and our common stock 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

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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;

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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

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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;

foreign governments' monetary policies and regulatory requirements;

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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 subsidiaries' functional currency, and remeasurement of our foreign subsidiaries' net monetary assets from the subsidiaries' local currency into the subsidiaries' 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.

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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;

our inadvertent use of defective or contaminated raw materials;

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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;

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.

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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.

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

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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.

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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 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

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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.

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.

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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

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.

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 No. 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.

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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

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.

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.

Risks Relating to an Investment in the Notes and our Common Stock

We may be unable to generate enough cash to service 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 into 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

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business, and general economic, competitive and other factors that are beyond our control. Our indebtedness poses risks to our business, including that:

we must use a substantial portion of our consolidated cash flow from operations to pay principal and interest on our debt, thereby reducing the funds available for working capital, capital expenditures, acquisitions, product development and other general corporate purposes;

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.

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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, including the notes, 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.

Our stock price has been and is likely to continue to be highly volatile, which may significantly affect the trading price of the notes

In recent years, the price of our common stock has fluctuated greatly. These price fluctuations have sometimes been rapid and severe. Fluctuations in the trading price of our common stock will affect the trading price of the notes. 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 notes;

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.

The price of our common stock also could be affected by possible sales of our common stock by investors who view the notes as a more attractive means of equity participation in our company and by hedging or arbitrage activity that may develop involving our common stock as a result of the issuance of the notes. The hedging or arbitrage could, in turn, affect the trading prices of the notes.

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 of 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

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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.

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

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.

Our obligations under the notes are unsecured and subordinated to all of our existing and future senior debt

Our obligations under the notes are unsecured and rank junior in priority of payment to all of our present and future senior debt. As a result, upon any distribution to our creditors in a bankruptcy, liquidation or reorganization or similar proceeding relating to us or our property, the holders of our senior debt will be entitled to be paid in full before any payment may be made with respect to the notes. In the event of a bankruptcy, liquidation or reorganization or similar proceeding relating to us, holders of the notes will participate with trade creditors and all holders of our other subordinated indebtedness in the assets remaining after we have paid all of our senior debt. In addition, upon a payment default with respect to designated senior

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debt, a covenant default entitling designated senior debt to accelerate or upon acceleration of the notes, the holders of our senior debt will be entitled to be paid before any payment will be made on the notes or on our 0.5% Convertible Subordinated Notes due 2008. As of March 31, 2005, we had senior indebtedness outstanding in the amount of approximately \$14.6 million. We also have or may incur new or additional obligations under letters of credit, guarantees, foreign exchange contracts or in other obligations contracts that would be senior to our obligations under the notes. The notes and the related indenture do not limit our ability, or our subsidiaries' ability, to incur additional indebtedness, liabilities and obligations.

We may need to refinance all or a portion of our indebtedness on or before maturity. We cannot assure you that we will be able to refinance any of our indebtedness on commercially reasonable terms, if at all.

Creditors of our subsidiaries will get paid before you will get paid

Substantially all of our operations are conducted through our subsidiaries. Accordingly, we are dependent upon the cash flows of our subsidiaries to meet our debt obligations, including our obligations under the notes. The notes are not guaranteed by our subsidiaries and, consequently, our subsidiaries are not obligated or required to pay any amounts pursuant to the notes or to make funds available to us in the form of dividends or advances. In the future, we may change some portion of our business that we operate through our subsidiaries. Any payment of dividends, distributions, loans or advances by our subsidiaries will also be contingent upon our subsidiaries' earnings, subject to statutory restrictions and possibly restricted by the contractual obligations of our subsidiaries.

In addition, our right to participate in any distribution of assets of any of our subsidiaries, upon any subsidiary's bankruptcy, liquidation, reorganization or similar proceeding, and thus your ability as a holder of the notes to benefit indirectly from such distribution, will be subject to the prior claims of creditors of that subsidiary, except to the extent that any of our claims as a creditor of such subsidiary may be recognized. As a result, the notes are structurally subordinated to all existing and future indebtedness and other liabilities and obligations, including trade payables, of our subsidiaries, if any. Therefore, holders of the notes should look only to our assets for payments on the notes. The notes and the related indenture do not limit the ability of any our subsidiaries to incur additional indebtedness, liabilities or obligations. As of March 31, 2005, our subsidiaries had approximately \$84.5 million of liabilities outstanding, excluding inter-company liabilities.

If we terminate your right to convert your notes, you will have no right to receive shares of our common stock under the indenture, the value of the notes may decline and your investment may be adversely affected

Your conversion rights may be terminated on or after June 30, 2006. We have five trading days after a conversion termination trigger event to notify you that we are terminating your conversion rights. A conversion termination trigger event occurs if the closing price of our common stock has exceeded 140% of the conversion price then in effect for at least 20 trading days within a period of 30 consecutive trading days. You may convert your notes at any time on or before the 20th day following the date of our notice of termination of your conversion rights. If you fail to convert your notes on or before the 20th day following the date of the notice, your right to convert the notes will terminate, you will thereafter have no rights to receive shares of our common stock under the indenture and the conversion provisions of the indenture will no longer be in effect. If you fail to convert your notes before termination of your right to convert, the value of your notes may decline and your investment may be adversely affected. See Description of Notes Termination of Conversion Right.

If we experience a fundamental change, we may be unable to purchase your notes as required under the indenture

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Upon a fundamental change, as defined in the indenture, you will have the right to require us to purchase your notes for cash. A fundamental change would also require that we offer to purchase for cash our 0.5% Convertible Subordinated Notes due 2008. If we experience a fundamental change and do not have sufficient funds to pay the purchase price for all of the notes tendered, this would constitute an event of default under the indenture governing the notes. In addition, a fundamental change may be prohibited or limited by, or create an event of default under, other agreements relating to borrowings that we may enter into from time to time, which are likely to be senior indebtedness. Therefore, a fundamental change at a time when we cannot pay for your notes that are tendered as a result of such fundamental change could result in your receiving substantially less than the principal amount of the notes. See [Description of Notes Fundamental Change](#) and [Subordination of the Notes](#).

The notes are not protected by restrictive covenants

The indenture governing the notes does not contain any financial or operating controls or restrictions on the payment of dividends, the incurrence of indebtedness or the issuance or repurchase of securities by us or any of our subsidiaries. For example, the indenture does not restrict our ability in the future to enter into credit facilities that are senior to the notes. Also, the indenture does not contain covenants or other provisions to afford protection to holders of the notes in the event of a fundamental change involving us, except to the extent described under [Description of Notes Fundamental Change](#).

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In certain circumstances this registration statement may not be used to resell the notes and the common stock issuable upon their conversion; there is no prior public market for the notes, if an active trading market does not develop for the notes you may not be able to resell them

The notes and the common stock issuable upon conversion of the notes may only be offered or sold pursuant to an exemption from the registration requirements of the Securities Act or pursuant to an effective registration statement, such as the registration statement of which this prospectus forms a part. We may suspend the use of this registration statement for up to 45 days in any 3 month period or 90 days in any 12 month period under certain circumstances relating to pending corporate developments, public filings with the SEC and similar events. We also are permitted to suspend the use of the registration statement for up to 60 days in any 3 month period under certain circumstances relating to possible acquisitions, financings or similar transactions or reviews by the SEC of our filings. We cannot assure you that we, or events beyond our control, will not result in our suspending our registration of the notes or the common stock. Currently, there is no public market for the notes and we cannot assure you that an active trading market will ever develop for the notes. We also cannot assure you of the pricing at which you will be able to sell your notes if you are able to sell them at all. Future trading prices of the notes will depend on many factors, including, among other things, prevailing interest rates, our operating results and the market for similar securities. We do not intend to apply for listing of the notes on any securities exchange.

If you hold notes, you will not be entitled to any rights with respect to our common stock, but you will be subject to all changes made with respect to our common stock

If you hold notes, you will not be entitled to any rights with respect to our common stock (including, without limitation, voting rights and rights to receive any dividends or other distributions on our common stock), but you will be subject to all changes affecting the common stock. You will have rights with respect to our common stock only if and when we deliver shares of common stock to you upon conversion of your notes and, in limited cases, under the conversion rate adjustments applicable to the notes. For example, if we propose an amendment to our articles of incorporation requiring shareholder approval, and the record date for determining the shareholders of record entitled to vote on the amendment occurs before delivery of common stock to you, you will not be entitled to vote on the amendment, although you will nevertheless be subject to any changes in the powers, preferences or special rights of our common stock effected by the amendment, if adopted.

The conversion rate of the notes will not be adjusted for all dilutive events

The conversion rate of the notes is subject to adjustment for certain limited events including, but not limited to, the issuance of stock dividends on our common stock, the issuance of certain rights or warrants, subdivisions and combinations of our common stock, certain distributions of assets, debt securities, capital stock or cash to holders of our common stock and certain issuer tender or exchange offers. See Description of Notes Conversion of the Notes. The conversion rate will not be adjusted for other events, such as an issuance of common stock for cash that may adversely affect the trading price of the notes or the common stock. We cannot assure you that an event that adversely affects the value of the notes, but does not result in an adjustment to the conversion rate, will not occur.

The notes may receive a lower rating than anticipated

Certain rating agencies have issued ratings on the notes. If these or other rating agencies assign the notes a rating lower than the rating expected by investors, or reduce their ratings in the future, the market price of the notes and our common stock would be harmed.

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USE OF PROCEEDS

We will not receive any proceeds from the sale by any selling securityholder of the notes or the underlying common stock.

RATIO OF EARNINGS TO FIXED CHARGES

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

	<u>Fiscal Years Ended September 30,</u>					<u>Six months</u>
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>Ended</u>
						<u>March 31, 2005</u>
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.

Table of Contents**SELLING SECURITYHOLDERS**

We originally issued the notes in a private placement in June 2004. The selling securityholders, including their assignees, transferees, pledgees or donees or their successors, may from time to time offer and sell under this prospectus or a supplement hereto any or all of the notes and the common stock issuable upon conversion of the notes. In the event that a sale is to be made pursuant to this prospectus by a pledgee or other transferee, we will provide appropriate information regarding such pledgee or transferee by a prospectus supplement or post-effective amendment, if necessary, naming such pledgee or transferee as a selling securityholder.

The following table contains information we received from the selling securityholders on or before June 30, 2005, with respect to the selling securityholders and the principal amount of notes and the underlying common stock beneficially owned by each selling securityholder before the offering and that may be offered using this prospectus.

NAME	PRINCIPAL AMOUNT OF NOTES BENEFICIALLY OWNED THAT MAY BE SOLD (\$)	PERCENTAGE OF NOTES OUTSTANDING	NUMBER		
			OF COMMON STOCK OWNED PRIOR TO THE OFFERING ⁽¹⁾	NUMBER OF COMMON STOCK THAT MAY BE SOLD ⁽¹⁾	PERCENTAGE OF COMMON STOCK OUTSTANDING ⁽²⁾
Basso Multi-Strategy Holding Fund Ltd.	4,500,000	6.9%	350,434	350,434	*
BNP Paribas Equity Strategies, SNC	2,106,000	3.2%	169,246	164,003	*
Canyon Capital Arbitrage Master Fund, Ltd.	1,920,000	3.0%	417,103	149,518	*
Canyon Value Realization Fund, L.P.	1,020,000	1.6%	221,586	79,431	*
Canyon Value Realization MAC 18, Ltd.	360,000	*	78,206	28,034	*
CIBC World Markets	1,250,000	1.9%	341,562	97,342	*
Clinton Multistrategy Master Fund, Ltd.	3,950,000	6.1%	307,603	307,603	*
CooperNeff Convertible Strategies (Cayman) Master Fund LP	2,074,000	3.2%	161,511	161,511	*
Credit Suisse First Boston LLC	2,500,000	3.8%	194,685	194,685	*
DKR SoundShore Oasis Holding Fund Ltd.	4,800,000	7.4%	373,797	373,797	*
DKR SoundShore Strategic Holding Fund Ltd.	1,200,000	1.8%	93,449	93,449	*
Geode U.S. Convertible Arbitrage Fund, a segregated account of Geode Capital Master Fund Ltd.	3,500,000	5.4%	272,560	272,560	*

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KBC Financial Products USA, Inc.	1,000,000	1.5%	107,387	77,874	*
Lyxor/Convertible Arbitrage Fund Limited	374,000	*	29,125	29,125	*
LDG Limited	166,000	*	12,927	12,927	*
Merrill Lynch Pierce Fenner & Smith Inc. ⁽³⁾	5,500,000	8.4%	428,308	428,308	*
MSS Convertible Arbitrage 1	8,000	*	623	623	*
Partners Group Alternative Strategies PCC - Green Delta Cell	1,592,000	2.4%	123,976	123,976	*
Singlehedge US Convertible Arbitrage Fund	517,000	*	40,261	40,261	*
Sphinx Convertible Arbitrage (Clinton) Segregated Portfolio	2,050,000	3.2%	159,642	159,642	*
Sphinx Fund	70,000	*	5,451	5,451	*
Sturgeon Limited	429,000	*	33,408	33,408	*
The Canyon Value Realization Fund (Cayman), Ltd.	2,700,000	4.2%	586,551	210,260	1.1%
TQA Master Fund, Ltd.	1,329,000	2.0%	103,495	103,495	*
TQA Master Plus Fund Ltd.	2,597,000	4.0%	202,240	202,240	*
UBS O Connor LLC f/b/o O Connor Global Convertible Arbitrage Master Ltd.	1,500,000	2.3%	116,811	116,811	*
Xavex Convertible Arbitrage 7 Fund	453,000	*	35,277	35,277	*
Zurich Institutional Benchmarks Master Fund Ltd.	272,000	*	21,182	21,182	*

* Less than 1%

- (1) Assumes conversion of all of the holder's notes at a conversion rate of 77.8743 shares per \$1,000 principal amount of notes and conversion of all of the 0.5% Convertible Subordinated Notes due 2008 held by such holder at a conversion rate of 49.1884 shares per \$1,000 principal amount of the 0.5% Convertible Subordinated Notes. Both the conversion rate for the notes and the 0.5% Convertible Subordinated Notes are subject to adjustment. As a result, the amount of common stock issuable upon conversion of the notes or the 0.5% Convertible Subordinated Notes may increase or decrease in the future. See Description of Notes Conversion of the Notes.
- (2) Calculated based on Rule 13d-3(d)(1)(i) of the Exchange Act using 51,883,549 shares of common stock outstanding as of June 27, 2005. In calculating this amount, we treated as outstanding the number of shares of common stock issuable upon conversion of all of that particular holder's notes and 0.5% Convertible Subordinated Notes due 2008. However, we did not assume the conversion of any other holder's notes or 0.5% Convertible Subordinated Notes.
- (3) Merrill Lynch, Pierce, Fenner & Smith Incorporated was the initial purchaser in the June 2004 private placement of the notes. Merrill Lynch also has advised us that it is not aware of any position, office or directorship relationship that it has had with us or our affiliates. However, Merrill Lynch also has advised us that it may have, from time to time, acted in a financial advisory capacity to Kulicke and Soffa Industries, Inc.

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We prepared this table based on the information supplied to us by the selling securityholders named in the table.

The selling securityholders listed in the above table may have sold or transferred some or all of their notes, 0.5% Convertible Subordinated Notes or the underlying common stock since the date on which they provided us with information regarding their notes and common stock, and we have not made any independent inquiries as to the foregoing. Information about the selling securityholders may change over time. Any changed information will be set forth to the extent provided to us by the selling securityholders, in prospectus supplements, if and when necessary.

Because the selling securityholders may offer all or some of their notes or the underlying common stock from time to time, we cannot estimate the amount of the notes or underlying common stock that will be held by the selling securityholders upon the termination of any particular offering. See Plan of Distribution.

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DESCRIPTION OF NOTES

The notes were issued under an indenture dated as of June 30, 2004, between Kulicke and Soffa Industries, Inc., as issuer, and J.P. Morgan Trust Company, National Association, as trustee. The notes are covered by a registration rights agreement pursuant to which the registration statement was filed of which this prospectus forms a part. You may request a copy of the indenture and the registration rights agreement from the trustee.

The following description is a summary of the material provisions of the notes and the indenture. It does not purport to be complete. This summary is subject to and is qualified in its entirety by reference to all the provisions of the indenture, including the definitions of certain terms used in the indenture. Wherever particular provisions or defined terms of the indenture or form of note are referred to, these provisions or defined terms are incorporated by reference into this prospectus.

As used in this Description of Notes section, references to Kulicke & Soffa, we, our or us refer solely to Kulicke and Soffa Industries, Inc., and not to our subsidiaries.

General

The notes are general unsecured debt. Our payment obligations under the notes are subordinated to our senior indebtedness as described under Subordination of the Notes. The notes rank equally with our 0.5% Convertible Subordinated Notes due 2008. The notes are convertible (unless the right to convert the notes is terminated as described under Termination of Conversion Right) into common stock as described under Conversion of the Notes.

The notes are limited to \$65 million aggregate principal amount. The notes have been issued only in denominations of \$1,000 and multiples of \$1,000. The notes will mature on June 30, 2010, unless converted earlier or purchased by us at your option upon a fundamental change.

Neither we nor any of our subsidiaries are subject to any financial covenants under the indenture. In addition, neither we nor any of our subsidiaries are restricted under the indenture from paying dividends, incurring debt, including senior indebtedness, or issuing or repurchasing our securities.

You are not afforded protection under the indenture in the event of a highly leveraged transaction or a fundamental change of Kulicke & Soffa except to the extent described below under Fundamental Change.

We pay interest on June 30 and December 30 of each year, beginning on December 30, 2004, to recordholders at the close of business on the preceding June 15 and December 15, as the case may be, except:

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interest payable upon purchase in connection with a fundamental change will be paid to the person to whom principal is payable, unless the purchase date is an interest payment date, in which case it is payable to the holder of record on the record date for the payment of interest; and

as set forth in the next sentence.

If you convert your notes into common stock on an interest payment date or on the final maturity date, you will be paid the interest due on that date if you are the holder of record on the preceding record date. If you convert any of your notes into common stock during the period after any record date but before the next interest payment date, one of the following will occur:

we will not be required to pay interest on the interest payment date if we have elected to terminate your right to convert your notes unless, in the case of the June 30, 2006 interest payment only, we have elected to terminate your right to convert the notes as provided below under **Termination of Conversion Right** and such conversion occurs within five days before June 30, 2006; or

if otherwise, any note that is submitted for conversion during this period must also be accompanied by an amount equal to the interest due on the interest payment date on the converted principal amount, unless at the time of conversion there is a default in the payment of interest on the notes or, unless, in the case of the June 30, 2006 interest payment only, we have elected to terminate your right to convert the notes as provided below under **Termination of Conversion Right** and such conversion occurs within five days before June 30, 2006. See **Conversion of the Notes**.

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We maintain an office in the Borough of Manhattan, the City of New York for the payment of interest, which currently is an office or agency of the trustee. We may pay interest either:

by check mailed to your address as it appears in the note register, but if you are a holder with an aggregate principal amount in excess of \$2.0 million, we will pay you, at your written election, by wire transfer in immediately available funds; or

by transfer to an account maintained by you in the United States.

However, payments to The Depository Trust Company, New York, New York, which we refer to as DTC, will be made by wire transfer of immediately available funds to the account of DTC or its nominee. Interest is computed on the basis of a 360-day year composed of twelve 30-day months.

Conversion of the Notes

You may convert your notes, in whole or in part, into common stock on or before the final maturity date of the notes, subject to prior purchase of the notes upon a fundamental change or our election to terminate your right to convert your notes. The number of shares of common stock you will receive upon conversion of your notes will be determined by multiplying the number of \$1,000 principal amount of the notes you convert by the conversion rate on the date of conversion. If you convert your notes after receipt of a notice of a fundamental change and before the purchase date, and the fundamental change constitutes a cash buy-out, we will pay you a make-whole premium, in cash, in addition to the shares of common stock you receive upon conversion of your notes as provided below under **Fundamental Change**. If you have tendered your notes for purchase upon a fundamental change and your right to convert the notes has not previously been terminated, you may convert your notes only if you withdraw your election to tender your notes. You may convert your notes in part so long as this part is \$1,000 principal amount or an integral multiple of \$1,000. If any notes are converted after a record date for any interest payment date and before the next interest payment date, the notes must be accompanied by an amount equal to the interest payable on the interest payment date on the converted principal amount, unless a default in the payment of interest on the notes exists at the time of conversion or, unless, in the case of the June 30, 2006 interest payment only, we have elected to terminate your right to convert the notes as provided below under **Termination of Conversion Right** and such conversion occurs within five days before June 30, 2006.

The initial conversion rate for the notes is 77.8743 shares of our common stock per \$1,000 principal amount of notes (equivalent to a conversion price of \$12.84 per share), subject to adjustment as described below. We will not issue fractional shares of common stock upon conversion of the notes. Instead, we will pay cash equal to the applicable fractional amount of the market price of our common stock on the business day before the conversion date. Except as described below, you will not receive any accrued interest or dividends upon conversion.

To convert your note into common stock you must:

complete and manually sign the conversion notice on the back of the note or a facsimile of the conversion notice and deliver this notice to the conversion agent;

surrender the note to the conversion agent;

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if required, furnish appropriate endorsements and transfer documents;

if required, pay all transfer or similar taxes; and

if required, pay funds equal to interest payable on the next interest payment date.

The date on which you comply with these requirements is the conversion date under the indenture.

We will adjust the conversion rate proportionally if any of the following events occur:

- (1) we issue common stock as a dividend or distribution on our common stock;
- (2) we issue to all holders of common stock certain rights or warrants to purchase our common stock;
- (3) we subdivide or combine our common stock;
- (4) we distribute to all holders of our common stock, evidences of indebtedness, shares of any class of our capital stock, or assets, including securities but excluding:

rights or warrants listed in (2) above;

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dividends or distributions listed in (1) above; and

cash distributions listed in (5) below;

unless we reserve such securities for distribution to holders of notes upon the conversion of the notes;

- (5) we distribute cash (excluding any dividend or distribution in connection with our liquidation, dissolution or winding up). If we declare such a cash dividend or distribution, the conversion rate will be increased to equal the number determined by multiplying the conversion rate in effect immediately before the record date for such dividend or distribution by the following fraction:

(Pre-Dividend Sale Price)

(Pre-Dividend Sale Price - Dividend Adjustment Amount)

No adjustment to the conversion rate or your ability to convert will be made if we provide that you will participate in the cash dividend or distribution without conversion. If the denominator of the above fraction is less than \$1.00 (including a negative amount) then in lieu of any adjustment under this clause (5), we will make adequate provision so that you will have the right to receive upon conversion, in addition to the shares of common stock issuable upon conversion, the amount of cash you would have received had you converted such notes on the record date for such cash dividend or distribution.

Pre-Dividend Sale Price means the average of the last reported sale price of our common stock for the three consecutive trading days ending on the trading day immediately preceding the ex-dividend date for such dividend or distribution. Dividend Adjustment Amount means the full amount of the dividend or distribution to the extent payable in cash applicable to one share of common stock;

- (6) we or one of our subsidiaries make a payment in respect of a tender offer or exchange offer for our common stock to the extent that the cash and value of any other consideration included in the payment per share of common stock exceeds the current market price per share of common stock on the trading day next succeeding the last date on which tenders or exchanges may be made pursuant to such tender or exchange offer; or
- (7) someone other than us or one of our subsidiaries makes a payment in respect of a tender offer or exchange offer in which, as of the closing date of the offer, our board of directors is not recommending rejection of the offer. The adjustment referred to in this clause (7) will be made only if:

the tender offer or exchange offer is for an amount that increases the offeror's ownership of common stock to more than 25% of the total shares of common stock outstanding; and

the cash and value of any other consideration included in the payment per share of common stock exceeds the current market price per share of common stock on the business day next succeeding the last date on which tenders or exchanges may be made pursuant to the tender or exchange offer.

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However, the adjustment referred to in clause (7) above will generally not be made if, as of the closing of the offer, the offering documents disclose a plan or an intention to cause us to engage in a consolidation or merger or a sale of all or substantially all of our assets.

To the extent that we have a shareholder rights plan in effect upon conversion of the notes into common stock, you will receive, in addition to the common stock, the rights under the rights plan whether or not the rights have separated from the common stock at the time of conversion, subject to limited exceptions.

In the event of:

any reclassification of our common stock;

a consolidation, merger or combination involving Kulicke & Soffa; or

a sale or conveyance to another person or entity of all or substantially all of our property or assets;

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in which holders of common stock would be entitled to receive stock, other securities, other property, assets or cash for their common stock, upon conversion of your notes you will be entitled to receive the same type of consideration which you would have been entitled to receive if you had converted the notes into our common stock immediately prior to any of these events.

You may in certain situations be deemed to have received a distribution subject to United States federal income tax as a dividend in the event of any taxable distribution to holders of common stock or in certain other situations requiring a conversion rate adjustment. See Certain United States Federal Income Tax Considerations.

We may, from time to time, increase the conversion rate for a period of at least 20 days if our board of directors has made a determination that this increase would be in our best interests. We would give holders at least 15 days notice of any increase in the conversion rate. In addition, we may increase the conversion rate if our board of directors deems it advisable to avoid or diminish any income tax to holders of common stock resulting from any stock distribution. See Certain United States Federal Income Tax Considerations. In each case above, we will not increase the conversion rate of the notes without first obtaining shareholder approval if such approval is required by law or Nasdaq Marketplace rules.

Except as described above in this section, we will not adjust the conversion rate for any issuance of our common stock or convertible or exchangeable securities or rights to purchase our common stock or convertible or exchangeable securities.

Termination of Conversion Right

We may terminate your right to convert the notes at any time on or after June 30, 2006, if the closing price of our common stock has exceeded 140% of the conversion price then in effect for at least 20 trading days within a period of 30 consecutive trading days (a conversion termination trigger event). If we elect to terminate your right to convert your notes upon a conversion termination trigger event, we will, within five trading days of the date of the conversion termination trigger event, deliver to you a written notice of our decision to terminate your right to convert your notes (the conversion termination notice). After we deliver the conversion termination notice, you may convert your notes at any time on or before the 20th day following the date of the conversion termination notice (the conversion termination date). If you fail to convert your notes on or before the conversion termination date, your right to convert the notes will terminate, you will thereafter have no rights to receive shares of our common stock under the indenture and the conversion provisions of the indenture will no longer be in effect. In such an event, your notes will remain outstanding and you will continue to receive interest until maturity unless your notes are purchased.

Sinking Fund

The notes are not entitled to any sinking fund.

Fundamental Change

If a fundamental change of Kulicke & Soffa occurs at any time before the maturity of the notes, you may require us to purchase your notes, in whole or in part, on a purchase date that is 30 days after the date of our notice of the fundamental change. The notes will be purchasable in

integral multiples of \$1,000 principal amount.

We will purchase the notes for cash at a price equal to 100% of the principal amount to be purchased, plus accrued but unpaid interest, and liquidated damages, if any, to the date of purchase, plus a make-whole premium, payable in cash, under the circumstances described below. If the purchase date is an interest payment date, we will pay interest to the record holder on the relevant record date.

If a fundamental change occurs and at least 60% of the consideration for the common stock in the transaction or transactions constituting the fundamental change consists of cash, which we will refer to as a cash buy-out, we will pay a make-whole premium, in cash, to the holders of the notes in addition to the purchase price of the notes on the date of purchase. The make-whole premium will also be paid to those holders who convert their notes after receipt of a notice of a fundamental change (where such fundamental change constitutes a cash buy-out) and before the purchase date, in addition to the shares of common stock to be received upon conversion of the notes.

The make-whole premium per note will equal (a) the average of the closing trading prices of a note for the five trading days immediately prior to the public announcement date of the cash buy-out, less (b) the greater of (i) \$1,000 or (ii) the product of (x) average closing prices of our common stock for the five trading days immediately prior to the public announcement date of the cash buy-out and (y) the applicable conversion rate; and will be payable in cash. The make-whole premium, if any, will not be less than zero.

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The closing trading price, for purposes of calculating the make-whole premium, means the average of the secondary market bid quotations obtained by the bid solicitation agent for \$1 million principal amount of notes at approximately 4 p.m., New York City time, for a determination date from three independent nationally recognized securities dealers we select; provided that if three such bids cannot reasonably be obtained by the bid solicitation agent, but two such bids are obtained, then the average of the two bids will be used, and if only one such bid can reasonably be obtained by the bid solicitation agent, that one bid will be used. If the bid solicitation agent cannot reasonably obtain at least one bid for the notes from a nationally recognized securities dealer, no make-whole premium will be paid.

The public announcement date, for purposes of calculating the make-whole premium, means the date of the public announcement of the closing of the transaction constituting the fundamental change.

We will mail to all record holders a notice of a fundamental change of Kulicke & Soffa within 10 days after it has occurred. We are also required to deliver to the trustee a copy of the fundamental change notice. If you elect to have your notes purchased, you must deliver to us or our designated agent, on or before the 30th day after the date of our fundamental change notice, your purchase notice and any notes to be purchased, duly endorsed for transfer. We will promptly pay the purchase price for notes surrendered for purchase following the purchase date.

A fundamental change of Kulicke & Soffa is any transaction or event (whether by means of an exchange offer, liquidation, tender offer, consolidation, merger, combination, reclassification, recapitalization or otherwise) in connection with which all or substantially all of our common stock is exchanged for, converted into, acquired for or constitutes solely the right to receive consideration which is not all or substantially all common stock that:

is listed, or immediately after the transaction or event will be listed, on one or more of (1) a United States national securities exchange, (2) the London Stock Exchange, (3) the Tokyo Stock Exchange, or (4) the German Stock Exchange; or

is approved, or immediately after the transaction or event will be approved, for quotation on the Nasdaq National Market or any similar United States system of automated dissemination of quotations of securities prices.

We will comply with any applicable provisions of Rule 13e-4 and any other tender offer rules under the Exchange Act in the event of a fundamental change.

These fundamental change purchase rights could discourage a potential acquiror of Kulicke & Soffa. However, this fundamental change purchase feature is not the result of management's knowledge of any specific effort to obtain control of Kulicke & Soffa by means of a merger, tender offer or solicitation, or part of a plan by management to adopt a series of anti-takeover provisions. The term fundamental change is limited to specified transactions and may not include other events that might adversely affect our financial condition or business operations. In addition, our obligation to offer to purchase the notes upon a fundamental change would not necessarily afford you protection in the event of a highly leveraged transaction, reorganization, merger or similar transaction involving Kulicke & Soffa.

We may be unable to purchase the notes in the event of a fundamental change. If a fundamental change were to occur, we may not have enough funds to pay the purchase price for all tendered notes. In addition, any future agreements relating to our indebtedness may expressly prohibit our purchase of the notes upon a fundamental change or may provide that a fundamental change constitutes an event of default under that agreement. If a fundamental change occurs at a time when we are prohibited from purchasing the notes, we could seek the consent of our lenders to purchase the notes or could attempt to refinance this debt. If we do not obtain a consent or refinance the debt, we could not purchase the notes. Our failure to purchase tendered notes would constitute an event of default under the indenture, which might constitute a default under the terms

of our other indebtedness. In such circumstances, or if a fundamental change would constitute an event of default under our senior indebtedness, if any, the subordination provisions of the indenture would restrict payments to the holders of notes.

Subordination of the Notes

Payment on the notes is, to the extent provided in the indenture, subordinated in right of payment to the prior payment in full of all of our senior indebtedness. The notes also are structurally subordinated to all indebtedness and other liabilities, including trade payables and lease obligations, if any, of our subsidiaries.

As of March 31, 2005, we had senior indebtedness outstanding in the amount of approximately \$14.6 million, and our subsidiaries had approximately \$84.5 million of other liabilities outstanding, excluding inter-company liabilities. The notes rank equally with our 0.5% Convertible Subordinated Notes due 2008. Neither we nor our subsidiaries are prohibited under the indenture from incurring debt, including senior indebtedness. We may, from time to time, incur additional debt, including senior indebtedness. Our subsidiaries may also, from time to time, incur other additional debt and liabilities.

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Upon any distribution of our assets upon any dissolution, winding up, liquidation or reorganization, the payment of the principal of, or premium, if any, interest, and liquidated damages, if any, on the notes will be subordinated in right of payment to the prior payment in full of all senior indebtedness in cash or other payment satisfactory to the holders of senior indebtedness. In the event of any acceleration of the notes because of an event of default, the holders of any outstanding senior indebtedness would be entitled to payment in full of all senior indebtedness obligations in cash or other payment satisfactory to the holders of senior indebtedness before the holders of the notes are entitled to receive any payment or distribution. We are required under the indenture to notify holders of senior indebtedness promptly if payment of the notes is accelerated because of an event of default.

We may not make any payment on the notes if:

a default in the payment of designated senior indebtedness occurs and is continuing beyond any applicable period of grace (called a payment default); or

a default other than a payment default on any designated senior indebtedness occurs and is continuing that permits holders of designated senior indebtedness to accelerate its maturity, or in the case of a lease, a default occurs and is continuing that permits the lessor either to terminate the lease or require us to make an irrevocable offer to terminate the lease following an event of default under the lease, and the trustee receives a notice of such default (called a payment blockage notice) from us or any other person permitted to give such notice under the indenture (called a non-payment default).

We may resume payments and distributions on the notes:

in case of a payment default, upon the date on which such default is cured or waived or ceases to exist; and

in case of a non-payment default, upon the earlier of the date on which such non-payment default is cured or waived or ceases to exist, or 179 days after the date on which the payment blockage notice is received, if the maturity of the designated senior indebtedness has not been accelerated, or in the case of any lease, 179 days after notice is received if we have not received notice that the lessor under such lease has exercised its right to terminate the lease or require us to make an irrevocable offer to terminate the lease following an event of default under the lease.

No new period of payment blockage may be commenced pursuant to a payment blockage notice unless 365 days have elapsed since the initial effectiveness of the immediately prior payment blockage notice. No non-payment default that existed or was continuing on the date of delivery of any payment blockage notice may be the basis for any later payment blockage notice.

If the trustee or any holder of the notes receives any payment or distribution of our assets in contravention of the subordination provisions on the notes before all senior indebtedness is paid in full in cash or other payment satisfactory to holders of senior indebtedness, then such payment or distribution will be held in trust for the benefit of holders of senior indebtedness or their representatives to the extent necessary to make payment in full in cash or payment satisfactory to the holders of senior indebtedness of all unpaid senior indebtedness.

In the event of our bankruptcy, dissolution or reorganization, holders of senior indebtedness may receive more, ratably, and holders of the notes may receive less, ratably, than our other creditors. This subordination will not prevent the occurrence of any event of default under the indenture.

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The notes are exclusively obligations of Kulicke & Soffa. Substantially all of our operations are conducted through our subsidiaries. As a result, our cash flow and our ability to service our debt, including the notes, are dependent upon the earnings of our subsidiaries. In addition, we are dependent on the distribution of earnings, loans or other payments by our subsidiaries to us.

Our subsidiaries are separate and distinct legal entities. Our subsidiaries have no obligation to pay any amounts due on the notes. Our subsidiaries are not required to provide us with funds for our payment obligations, whether by dividends, distributions, loans or other payments. In addition, any payment of dividends, distributions, loans or advances by our subsidiaries to us could be subject to statutory or contractual restrictions. Payments to us by our subsidiaries will also be contingent upon our subsidiaries' earnings and business considerations.

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Our right to receive any assets of any of our subsidiaries upon their liquidation or reorganization, and therefore the right of the holders to participate in those assets, will be effectively subordinated to the claims of that subsidiary's creditors, including trade creditors. In addition, even if we were a creditor to any of our subsidiaries, our rights as a creditor would be subordinate to any security interest in the assets of our subsidiaries and any indebtedness of our subsidiaries senior to that held by us.

We are obligated to pay reasonable compensation to the trustee and to indemnify the trustee against certain losses, liabilities or expenses incurred by the trustee in connection with its duties relating to the notes. The trustee's claims for these payments will generally be senior to those of noteholders in respect of all funds collected or held by the trustee.

Certain Definitions

designated senior indebtedness means any senior indebtedness that expressly provides that such senior indebtedness will be designated senior indebtedness for purposes of the indenture. Any agreement for designated senior indebtedness may place limitations and conditions on the right of the creditor to exercise the rights of designated senior indebtedness.

indebtedness means:

(1) all indebtedness, obligations and other liabilities for borrowed money, including overdrafts, foreign exchange contracts, currency exchange agreements, interest rate protection agreements, and any loans or advances from banks, or evidenced by bonds, debentures, notes, or similar instruments, other than any account payable or other accrued current liability or obligation incurred in the ordinary course of business in connection with the obtaining of materials or services;

(2) obligations with respect to letters of credit, bank guarantees and bankers' acceptances;

(3) obligations in respect of leases required in conformity with generally accepted accounting principles to be accounted for as capitalized lease obligations on our balance sheet;

(4) all obligations and other liabilities under any lease or related document in connection with the lease of real property that provides that we are contractually obligated to purchase or cause a third party to purchase the leased property, and thereby guarantee a minimum residual value of the leased property to the lessor and our obligations under the lease or related document to purchase or to cause a third party to purchase the leased property;

(5) all obligations with respect to an interest rate or other swap, cap or collar agreement or foreign currency hedge, exchange or purchase agreement;

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(6) all direct or indirect guaranties and similar agreements in respect of, and any obligations or liabilities to purchase, acquire or otherwise assure a creditor against loss in respect of, indebtedness, obligations or liabilities of others of the type described in (1) through (5) above;

(7) any obligations described in (1) through (6) above secured by any mortgage, pledge, lien or other encumbrance existing on property which is owned or held by us; and

(8) any amendments or modifications to (1) through (7) above.

senior indebtedness means the principal, premium, if any, interest, including any interest accruing after bankruptcy, and rent or termination payment on or other amounts due on our current or future indebtedness, whether created, incurred, assumed, guaranteed or in effect guaranteed by us, including any deferrals, renewals, extensions, refundings, amendments, modifications or supplements to the above. However, senior indebtedness does not include:

indebtedness that expressly provides that it is not senior in right of payment to the notes or expressly provides that it is on parity with or junior to the notes;

our indebtedness to any of our majority-owned subsidiaries; and

the 0.5% Convertible Subordinated Notes due 2008 and the notes.

Events of Default; Notice and Waiver

The following are events of default under the indenture:

we fail to pay principal or premium, if any, when due upon maturity or otherwise on the notes, whether or not the payment is prohibited by the subordination provisions of the indenture;

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we fail to pay any interest and liquidated damages, if any, on the notes, when due whether or not the payment is prohibited by the subordination provisions of the indenture and such failure continues for a period of 30 days;

we fail to perform or observe any of the other covenants in the indenture for 60 days after notice; or

certain events involving our bankruptcy, insolvency or reorganization.

The trustee may withhold notice to the holders of the notes of any default, except defaults in payment of principal, premium, interest, or liquidated damages, if any, on the notes. However, the trustee must consider it to be in the interest of the holders of the notes to withhold this notice.

If an event of default occurs and continues, the trustee or the holders of at least 25% in principal amount of the outstanding notes may declare the principal, premium, if any, accrued interest, and liquidated damages, if any, on the outstanding notes to be immediately due and payable. In case of certain events of bankruptcy or insolvency involving us, the principal, premium, if any, accrued interest and liquidated damages, if any, on the notes will automatically become due and payable. However, if we cure all defaults, except the nonpayment of principal, premium, if any, interest or liquidated damages, if any, that became due as a result of the acceleration, and meet certain other conditions, with certain exceptions, this declaration may be cancelled and the holder of a majority of the principal amount of outstanding notes may waive these past defaults.

Payments of principal, premium, if any, interest, or liquidated damages, if any, on the notes that are not made when due will accrue interest at the annual rate of 0.5% from the required payment date.

The holders of a majority of outstanding notes have the right to direct the time, method and place of any proceedings for any remedy available to the trustee, subject to limitations specified in the indenture.

No holder of notes may pursue any remedy under the indenture, except in the case of a default in the payment of principal, premium, or interest on the notes, unless:

the holder has given the trustee written notice of an event of default;

the holders of at least 25% in principal amount of outstanding notes make a written request, and offer reasonable indemnity, to the trustee to pursue the remedy;

the trustee does not receive an inconsistent direction from the holders of a majority in principal amount of the notes; and

the trustee fails to comply with the request within 60 days after receipt.

Consolidation, Merger and Sale of Assets

We may, without your consent, consolidate with or merge into any other person or sell, convey or lease all or substantially all of our property to any other person if such person:

is authorized to acquire and operate the same;

is organized under the laws of the United States of America, any state thereof or the District of Columbia, or, if not organized in any such jurisdiction, if (1) such person agrees to be subject to the service of process laws of the State of New York and (2) under the laws of such person's jurisdiction of organization, payments on the notes (in cash or in shares of common stock upon conversion) would not be subject to withholding tax; and

expressly assumes our obligations under the indenture and the notes by means of a supplemental indenture satisfactory in form to the trustee.

Under any consolidation or merger or any sale, conveyance or lease of all or substantially all of our property as described in the preceding paragraph, the successor company will be our successor and will succeed to, and be substituted for, and may exercise every right and power of, Kulicke & Soffa under the indenture. If the predecessor is still in existence after the transaction, it will be released from its obligations under the indenture and the notes, except in the case of a lease of all or substantially all of our property.

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Modification and Waiver

The consent of the holders of a majority in principal amount of the outstanding notes is required to modify or amend the indenture. However, a modification or amendment requires the consent of the holder of each affected note if it would:

extend the fixed maturity of any note;

reduce the rate or extend the time for payment of interest of any note;

reduce the principal amount or premium of any note;

reduce any amount payable upon purchase of any note;

adversely change our obligation to purchase any note upon a fundamental change;

impair the right of a holder to institute suit for payment on any note;

change the currency in which any note is payable;

impair the right of a holder to convert any note; or

adversely modify the subordination provisions of the indenture.

The vote of the holders of all outstanding notes is required to modify certain of the provisions of the indenture relating to modification or waiver of provisions of the indenture or to reduce the percentage of notes required for a quorum or for consent to any modification of the indenture.

We are permitted to modify certain provisions of the indenture without the consent of the holders of the notes.

Information Concerning the Trustee

We have appointed J.P. Morgan Trust Company, National Association, the trustee under the indenture, as paying agent, conversion agent, note registrar and custodian for the notes. The trustee or its affiliates may provide banking and other services to us in the ordinary course of their business.

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The indenture contains certain limitations on the rights of the trustee, as long as it or any of its affiliates is then our creditor, to obtain payment of claims in certain cases or to realize on certain property received on any claim as security or otherwise. The trustee and its affiliates are permitted to engage in other transactions with us. However, if the trustee has a conflicting interest within the meaning of the Trust Indenture Act, the trustee must eliminate such conflict or resign.

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DESCRIPTION OF CAPITAL STOCK

Our authorized capital stock consists of 200 million shares of common stock, without par value, and 5 million shares of preferred stock, without par value. As of June 27, 2005, there were 51,883,549 shares of common stock and no shares of preferred stock outstanding. The following description of our capital stock is qualified in its entirety by reference to our articles of incorporation and bylaws, each as amended, and the description of our common stock contained in our registration statement on Form 8-A12G/A filed with the SEC, which has been incorporated by reference into this prospectus.

Common Stock

The holders of our common stock are entitled to one vote per share for each share held of record on all matters submitted to a vote of stockholders. Subject to preferential rights with respect to any series of preferred stock that may be issued, holders of our common stock are entitled to receive ratably such dividends as may be declared by the board of directors on the common stock out of funds legally available therefor and, in the event of a liquidation, dissolution or winding-up of our affairs, are entitled to share equally and ratably in all of our remaining assets and funds. In the election of directors, the holders of our common stock have cumulative rights, meaning that they may multiply the number of votes the stockholder is entitled to cast by the total number of directors to be elected at a meeting of stockholders and cast the whole number of votes for one candidate or distribute them among some or all candidates. The holders of the common stock have no preemptive rights or rights to convert shares of our common stock into any other securities and are not subject to future calls or assessments by us. All outstanding shares of our common stock are fully paid and nonassessable.

Preferred Stock

By resolution of the board of directors and without any further vote or action by the stockholders, we may issue preferred stock in one or more series and fix from time to time the number of shares to be included in each such series, and the designations, preferences, qualifications, limitations, restrictions and special or relative rights of the shares of each such series. Our ability to issue preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could adversely affect the voting power of the holders of the common stock and could have the effect of making it more difficult for a person to acquire, or of discouraging a person from attempting to acquire, control of us. We have no present plans to issue any of the preferred stock.

Certain Charter Provisions

Some provisions of our articles of incorporation and bylaws and Pennsylvania law may discourage certain transactions involving a fundamental change of Kulicke & Soffa. For example, our articles of incorporation and bylaws contain provisions that (1) classify the board of directors into four classes, with one class being elected each year, (2) permit the board to issue blank check preferred stock without stockholder approval, as discussed above, and (3) prohibit us from engaging in certain 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 only remove directors for cause. These provisions and certain other provisions of the Pennsylvania Business Corporation Law could have the effect of delaying, deferring or preventing a fundamental change of Kulicke & Soffa and may adversely affect the voting and other rights of holders of common stock.

Transfer Agent and Registrar

American Stock Transfer and Trust Company is the transfer agent and registrar for our common stock, with offices in New York, New York.

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DESCRIPTION OF CERTAIN OTHER INDEBTEDNESS

The following summarizes the material provisions of certain of our indebtedness in addition to the indebtedness represented by the notes offered by this prospectus. This summary is not a complete description of such indebtedness. Copies of the indenture for the 0.5% Convertible Subordinated Notes due 2008 are available upon request, and the description of such notes set forth below is qualified in its entirety by reference to the indenture.

We used the majority of the net proceeds of the notes to repurchase or redeem all of our outstanding 5 1/4% Convertible Subordinated Notes due 2006.

0.5% Convertible Subordinated Notes Due 2008

In November 2003, we issued \$205 million aggregate principal amount of convertible subordinated notes due on November 30, 2008. The 0.5% Convertible Subordinated Notes due 2008 bear interest at the annual rate of 0.5% on the principal amount, payable semi-annually in cash on May 30 and November 30 of each year.

Conversion. The 0.5% Convertible Subordinated Notes Due 2008 may be converted into our common stock at any time, subject to prior redemption, at a conversion rate of 49.1884 shares per \$1,000 principal amount of notes, subject to adjustment upon the occurrence of certain events affecting our common stock, including if we declare and pay a dividend on our common stock.

Subordination. The 0.5% Convertible Subordinated Notes due 2008 are contractually subordinated to all of our existing and future senior indebtedness and are structurally subordinated to all indebtedness of our subsidiaries. The 0.5% Convertible Subordinated Notes rank equally with the 1% Convertible Subordinated Notes due 2010.

Purchase at Option of Holder (Fundamental Change). The holders of the 0.5% Convertible Subordinated Notes due 2008 may require us to purchase the notes for cash, in whole or in part, on a purchase date that is 30 days after the date of a notice of fundamental change (as defined below). Any such purchase is required to be at a price equal to 100% of the principal amount of notes to be purchased, plus accrued interest to, but excluding, the purchase date.

A fundamental change is any transaction or event in connection with which all or substantially all of our common stock is exchanged for, converted into, acquired for or constitutes solely the right to receive consideration (whether by means of an exchange offer, liquidation, tender offer, consolidation, merger, combination, reclassification, recapitalization or otherwise) which is not all or substantially all common stock that is or that will be immediately after the transaction or event:

listed on one or more of (1) a United States national securities exchange, (2) the London Stock Exchange, (3) the Tokyo Stock Exchange, or (4) the German Stock Exchange; or

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approved for quotation on the Nasdaq National Market or any similar United States system of automated dissemination of quotations of securities prices.

Events of Default. The indenture for the 0.5% Convertible Subordinated Notes due 2008 contains customary events of default, including failure to pay amounts due, failure to observe covenants and events involving our bankruptcy, insolvency or reorganization.

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CERTAIN UNITED STATES FEDERAL INCOME TAX CONSIDERATIONS

The following is a summary of certain U.S. federal income tax considerations relating to the purchase, ownership and disposition of the notes and common stock into which notes may be converted, but does not purport to be a complete analysis of all the potential tax considerations relating thereto. This summary is based on laws, regulations, rulings and decisions now in effect, all of which are subject to change or differing interpretation, possibly with retroactive effect. We have not sought any ruling from the Internal Revenue Service (the "IRS") with respect to the statements made and the conclusions reached in the following summary, and there can be no assurance that the IRS or a court will agree with those statements and conclusions. This summary does not discuss the effect of the federal estate or gift tax laws (except as set forth below with respect to Non-U.S. Holders), or the tax laws of any applicable foreign, state, local or other jurisdiction.

Except as specifically discussed below with regard to Non-U.S. Holders (as defined below), this summary applies only to beneficial owners that will hold notes and common stock into which notes may be converted as "capital assets" (within the meaning of section 1221 of the Internal Revenue Code of 1986, as amended (the "Code")) and who, for U.S. federal income tax purposes, are (1) individual citizens or residents of the U.S., (2) corporations or other entities created or organized in or under the laws of the U.S. or of any political subdivision thereof, (3) estates, the income of which is subject to U.S. federal income taxation regardless of the source of such income or (4) trusts subject to the primary supervision of a U.S. court and the control of one or more U.S. persons and certain trusts in existence on August 20, 1996 that elect to be treated as United States persons, as such term is defined in the Code ("U.S. Holders"). Persons other than U.S. Holders ("Non-U.S. Holders") are subject to special U.S. federal income tax considerations, some of which are discussed below.

This discussion does not address all the tax considerations applicable to an investor's particular circumstances or to investors that may be subject to special tax rules, such as banks or other financial institutions, holders subject to the alternative minimum tax, tax-exempt organizations, insurance companies, foreign persons or entities (except to the extent specifically set forth below), dealers in securities or currencies, partnerships or other entities classified as partnerships for U.S. federal income tax purposes, U.S. Holders whose financial currency is not the U.S. dollar, persons that will hold notes as a position in a hedging transaction, straddle or conversion transaction for tax purposes or persons deemed to sell notes or common stock under the constructive sale provisions of the Code. This discussion assumes that the IRS will respect the classification of the notes as indebtedness for U.S. federal income tax purposes. If a partnership (including any entity classified as a partnership for U.S. federal income tax purposes) is a beneficial owner of a note or the stock into which the notes may be converted, the treatment of a partner in the partnership will generally depend upon the status of the partner and the activities of the partnership. A beneficial owner of notes or the common stock into which notes may be converted that is a partnership, and partners in such partnership, should consult their tax advisors about the U.S. federal income tax consequences of the acquisition, ownership and disposition of the notes and the common stock into which the notes may be converted.

THE FOLLOWING DISCUSSION OF CERTAIN U.S. FEDERAL INCOME TAX CONSIDERATIONS IS FOR GENERAL INFORMATION ONLY AND IS NOT TAX ADVICE. ACCORDINGLY, INVESTORS CONSIDERING THE PURCHASE OF NOTES SHOULD CONSULT THEIR OWN TAX ADVISORS WITH RESPECT TO THE APPLICATION OF THE UNITED STATES FEDERAL INCOME TAX LAWS TO THEIR PARTICULAR SITUATIONS AS WELL AS ANY TAX CONSEQUENCES ARISING UNDER THE FEDERAL ESTATE OR GIFT TAX LAWS OR UNDER THE LAWS OF ANY STATE, LOCAL OR FOREIGN TAXING JURISDICTION OR UNDER ANY APPLICABLE TAX TREATY.

U.S. Holders

Taxation of Interest

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Interest paid on the notes will be included in your income as ordinary income at the time it is treated as received or accrued, in accordance with your regular method of accounting for U.S. federal income tax purposes. Under Treasury Regulations, the possibility of an additional payment under a note may be disregarded for purposes of determining the amount of interest or original issue discount income to be recognized by you in respect of a note (or the timing of such recognition) if the likelihood of the payment, as of the date the notes are issued, is remote. You may require us to redeem any and all of your notes in the event of a fundamental change. We intend to take the position that a fundamental change is remote under the Treasury Regulations, and likewise do not intend to treat the possibility of a fundamental change as affecting the yield to maturity of any note. In the event a fundamental change occurs, the amount and timing of income that must be recognized by you will be affected. There can be no assurance that the IRS will agree with this position.

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Original Issue Discount

Because the stated principal amount of the notes exceeds their issue price by more than a *de minimis* amount, there is original issue discount with respect to the notes and you will be required for federal income tax purposes to accrue this original issue discount into income over time, and in advance of the receipt of cash with respect thereto, using a constant yield method under the provisions of the Internal Revenue Code and Treasury regulations relating to original issue discount.

Acquisition Premium

If you purchase a note for an amount that is less than or equal to the stated principal amount of the note but in excess of the note's revised issue price (as defined below), you generally will be permitted to reduce the daily portion of original issue discount includible in your income by an amount equal to the product of (1) the amount of the daily portion of original issue discount and (2) a fraction, the numerator of which is the excess of your adjusted tax basis in the note immediately after your purchase over the revised issue price of the note, and the denominator of which is the aggregate amount of original issue discount includible in income with respect to the note after the date on which the note is purchased. As an alternative to reducing the amount of original issue discount otherwise includible in income by this fraction, you may elect to compute your original issue discount accruals by treating your purchase as if it were a purchase at original issuance and applying the constant yield method to the deemed original issue discount amount that would result.

Amortizable Bond Premium

If you purchase a note at a premium over its stated principal amount, plus accrued interest, such excess will constitute amortizable bond premium. In such case, you generally will not be required to include any original issue discount in income. You may elect to amortize that premium with a corresponding decrease in adjusted tax basis from the purchase date to the note's maturity date under a constant yield method. Amortizable bond premium will not include any premium attributable to a note's conversion feature. Amortizable bond premium is treated as an offset to interest income on a note and not as a separate deduction. The amount of amortizable bond premium that you may deduct in any year is limited to the amount by which your total interest inclusions on the note in prior years exceed the total amount treated as a amortizable bond premium deduction in prior years. If any of the excess amortizable bond premium is not deductible, that amount is carried forward to the next taxable year. The election to amortize amortizable bond premium on a constant yield method applies to all debt obligations held or acquired by you on or after the first day of the first taxable year to which the election applies and cannot be revoked without the consent of the IRS.

Market Discount

If you acquire a note at a cost that is less than the revised issue price, the amount of such difference is treated as market discount for federal income tax purposes, unless such difference is less than .25% multiplied by the stated principal amount of the notes multiplied by the number of complete years until maturity (from the date of acquisition). The revised issue price of a note, as of any date, will equal the sum of its issue price plus the amount of any OID that has accrued on the note up until that date.

If you purchase a note at a market discount, you are required to treat any gain on the sale, redemption or other disposition of a note as ordinary income to the extent of the accrued market discount that has not been previously included in income. If you dispose of a note with market discount in certain otherwise nontaxable transactions, you may be required to include accrued market discount as ordinary income as if you had

sold the note at its then fair market value. However, if you convert a note with market discount into shares of common stock, the amount of accrued market discount not previously included in income with respect to the converted note through the date of conversion will be treated as ordinary income when you dispose of the common stock to the extent of any gain on that disposition.

In general, the amount of market discount that has accrued is determined on a ratable basis. You may, however, elect to determine the amount of accrued market discount on a constant yield to maturity basis. This election is made on a note-by-note basis and is irrevocable. With respect to a note with market discount, you may not be allowed to deduct immediately a portion of the interest expense on any indebtedness incurred or maintained to purchase or to carry the note. You may elect to include market discount in income currently as it accrues, in which case the interest deferral rules set forth in the preceding sentence will not apply. This election will apply to all debt instruments that you acquire on or after the first day of the first taxable year to which the election applies and is irrevocable without the consent of the IRS.

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Election to Treat All Interest as Original Issue Discount

You may elect to include in gross income all interest that accrues on a note, including any stated interest, original issue discount and market discount (as adjusted by amortizable bond premium and acquisition premium). Such an election for a note may be revoked only with the permission of the IRS, and you should consult your tax advisor before making such election.

Sale or Redemption of the Notes

Upon the sale or redemption of a note, you generally will recognize capital gain or loss (except with respect to market discount as described below) equal to the difference between (1) the amount of cash proceeds and the fair market value of any property received on the sale or redemption (except to the extent such amount is attributable to accrued interest income not previously included in income, which will be taxable as ordinary income, or is attributable to accrued interest that was previously included in income, which amount may be received without generating further income) and (2) your adjusted tax basis in the note. Your adjusted tax basis in a note generally will equal the cost of the note increased by the net amount of any original issue discount included in your income through the date of disposition, (and, if you have elected to include market discount in income, the amount of any such market discount included in your income as of the date of disposition), and decreased by any amortizable bond premium amounts deducted by you. Any capital gain or loss will be long-term capital gain or loss if your holding period in the note is more than one year at the time of sale or redemption. Long-term capital gains recognized by certain noncorporate U.S. Holders, including individuals, will generally be subject to a maximum rate of tax of 15%. The deductibility of capital losses is subject to limitations.

Conversion of the Notes

You generally will not recognize any income, gain or loss upon conversion of a note into common stock, except with respect to cash received (1) in lieu of a fractional share of common stock (2) with respect to cash distributions in which a holder of a note was entitled to participate without converting, as described under the caption *Description of Notes Conversion of the Notes* or (3) with respect to payment of any make-whole premium, as described under the caption *Description of Notes Fundamental Change* . Your tax basis in the common stock received on conversion of a note will be the same as your adjusted tax basis in the note at the time of conversion (reduced by any basis allocable to a fractional share interest), and your holding period for the common stock received on conversion will generally include the holding period of the note converted.

Cash received in lieu of a fractional share of common stock upon conversion generally will be treated as a payment in exchange for the fractional share of common stock. Accordingly, the receipt of cash in lieu of a fractional share of common stock generally will result in capital gain or loss (measured by the difference between the cash received for the fractional share and your adjusted tax basis in the fractional share).

If we pay a cash distribution on our common stock, we may elect to make cash payments upon conversion to the holders of the notes in lieu of an adjustment to the conversion price, as described under the caption *Description of Notes Conversion of the Notes* . In addition, we may be required to pay a make-whole premium upon conversion as described under the caption *Description of Notes Fundamental Change* . In these events, the receipt of these amounts will be treated as interest income for United States federal income tax purposes.

Distributions

Distributions, if any, made on the common stock after a conversion generally will be included in your income as dividend income to the extent of our current or accumulated earnings and profits. A corporate U.S. Holder generally will be entitled to a dividends-received deduction. For a noncorporate U.S. Holder, dividends generally will be subject to tax at the reduced rate applicable to long-term capital gains. You will be eligible for this reduced rate, however, only if you hold the common stock for more than 60 days during the 121-day period beginning 60 days before the ex-dividend date. Distributions in excess of our current and accumulated earnings and profits will be treated as a return of capital to the extent of your basis in the common stock and thereafter as capital gain.

Holders of convertible debt instruments such as the notes may, in certain circumstances, be deemed to have received distributions of stock if the conversion price is adjusted. Adjustments to the conversion price made pursuant to a bona fide reasonable adjustment formula which has the effect of preventing the dilution of the interest of the holders of the debt instruments, however, will generally not be considered to result in a constructive distribution of stock. Certain of the possible adjustments provided in the notes (including, without limitation, adjustments in respect of taxable distributions to our stockholders) will not qualify as being pursuant to a bona fide reasonable adjustment formula. If such adjustments are made, you will be deemed to have received constructive distributions taxable as dividends to the extent of our current and accumulated earnings and profits even though you have not received any cash or property as a result of the adjustments. In certain circumstances, the failure to provide for an adjustment may result in taxable dividend income to you of common stock.

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Sale of Common Stock

Upon the sale of common stock, you generally will recognize capital gain or loss equal to the difference between (1) the amount of cash and the fair market value of any property received upon the sale or exchange and (2) your adjusted tax basis in the common stock. This capital gain or loss will be long-term capital gain or loss if your holding period in the common stock is more than one year at the time of the sale. Long-term capital gains recognized by certain noncorporate U.S. Holders, including individuals, generally will be subject to a maximum rate of federal income tax of 15%. The deductibility of capital losses is subject to limitations.

Special Tax Rules Applicable to Non-U.S. Holders

In general, subject to the discussion below concerning backup withholding, if you are a Non-U.S. Holder:

(a) payments of principal or interest (including payments attributable to accrued original issue discount) on the notes by us or any paying agent to you will not be subject to U.S. withholding tax, provided that, in the case of interest (including payments attributable to accrued original issue discount), (1) you do not own, actually or constructively, 10% or more of the total combined voting power of all of our classes of stock entitled to vote, within the meaning of section 871(h)(3) of the Code, (2) you are not a controlled foreign corporation with respect to which we are a related person within the meaning of Section 954(d)(3) of the Code, (3) you are not a bank receiving interest described in section 881(c)(3)(A) of the Code, and (4) the certification requirements under section 871(h) or section 881(c) of the Code and Treasury Regulations thereunder (discussed below under Backup Withholding and Information Reporting) are satisfied;

(b) you will not be subject to U.S. federal income tax on gains realized on a sale, exchange, retirement or other disposition of the note or common stock unless (1) you are an individual who is present in the U.S. for 183 days or more in the taxable year of sale or other disposition, and certain conditions are met, (2) such gain is effectively connected with your conduct of a trade or business in the U.S. and, if certain U.S. income tax treaties apply, is attributable to a U.S. permanent establishment maintained by you, (3) you are subject to Code provisions applicable to certain U.S. expatriates, or (4) in the case of common stock held by a person who holds more than 5% of such stock, we are or have been, at any time within the shorter of the five-year period preceding such sale or other disposition or the period you held the common stock, a U.S. real property holding corporation (a USRPHC) for U.S. federal income tax purposes. We do not believe that we currently are a USRPHC or that we will become one in the future; and

(c) if you receive interest on the notes (including payments attributable to accrued original issue discount) not excluded from U.S. withholding tax as described in (a) above and dividends on our common stock upon conversion generally will be subject to U.S. withholding tax at a 30% rate, except where you provide a properly executed IRS Form W-8BEN, including a U.S. taxpayer identification number claiming a reduction of or an exemption from withholding under an applicable tax treaty. Special certification procedures apply to payments through qualified intermediaries. If you are eligible for a reduced rate of withholding tax pursuant to an income tax treaty, you may obtain a refund of amounts withheld at a higher rate by filing an appropriate claim for refund with the IRS.

If you are engaged in a trade or business in the U.S. and if interest on the note (including original issue discount), dividends on the common stock, or gain realized on the sale, redemption or other disposition of the note or common stock is effectively connected with the conduct of that trade or business (and, if certain tax treaties apply, is attributable to a U.S. permanent establishment maintained by you in the U.S.), you, although exempt from U.S. withholding tax (provided that the certification requirements discussed in the next sentence are met), will generally be subject to U.S. federal income tax on such interest (including original issue discount), dividends or gain on a net income basis in the same manner as if you were a U.S. Holder. You will be required to provide us with a properly executed IRS Form W-8ECI or successor form in order

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to claim an exemption from withholding tax. In addition, if you are a foreign corporation, you may be subject to a branch profits tax equal to 30% (or such lower rate provided by an applicable treaty) of its effectively connected earnings and profits for the taxable year, subject to certain adjustments.

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U.S. Federal Estate Tax

A note held by an individual who at the time of death is not a citizen or resident of the U.S. (as specially defined for U.S. federal estate tax purposes) will not be subject to U.S. federal estate tax if the individual did not actually or constructively own 10% or more of the total combined voting power of all of our classes of stock and, at the time of the individual's death, payments with respect to the note would not have been effectively connected with the conduct by the individual of a trade or business in the U.S. common stock held by an individual at death will be included in the individual's gross taxable estate for U.S. federal estate tax purposes, regardless of his citizenship or residence, unless an applicable estate tax treaty otherwise applies.

Backup Withholding and Information Reporting

Information returns will be filed with the IRS in connection with interest (including payments attributable to original issue discount) and dividend payments, as well as, in some cases, proceeds from the sale, redemption or other disposition of notes or common stock. These information returns may be made available to the governments of the jurisdictions in which Non-U.S. Holders are subject to tax pursuant to the terms of income tax treaties between the United States and such jurisdictions. You may be subject to backup withholding tax on these payments unless you comply with applicable certification procedures. In the case of a U.S. Holder, the certification may be made by providing a properly executed IRS Form W-9 or substitute Form W-9. In the case of a Non-U.S. Holder, the certification, generally, may be made by providing a properly executed Form W-8BEN or W-8ECI or by complying with special certification procedures applicable to payments through qualified intermediaries. Interest payments on our notes (including payments attributable to original issue discount), and dividends on our common stock, that are paid to Non-U.S. Holders subject to U.S. withholding tax, as described above, generally will be exempt from U.S. backup withholding tax but will be subject to certain information reporting.

The amount of any backup withholding from a payment to you will be allowed as a credit against your U.S. federal income tax liability and may entitle you to a refund provided that the required information is furnished to the IRS.

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PLAN OF DISTRIBUTION

We have registered the notes and the underlying common stock to allow the selling securityholders and their successors, including their assignees, transferees, pledgees and donees and their respective successors, to sell these securities to the public from time to time after the date of this prospectus. The selling securityholders may sell the securities directly or through underwriters, broker-dealers or agents. If the selling securityholders sell the securities through underwriters or broker-dealers, the selling securityholders will be responsible for underwriting discounts or commissions or agents' commissions. We have agreed to pay all of the expenses incidental to the registration, offering and sale of the securities to the public other than commissions, fees and discounts of underwriters, brokers, dealers and agents.

The total proceeds to the selling securityholders from selling the securities will be the purchase price of the securities, less any discounts and commissions paid by the selling securityholders. We will not receive any of the proceeds from the sale of the securities offered by this prospectus.

The SEC may deem the selling securityholders and any broker-dealers or agents who participate in the distribution of the securities to be underwriters within the meaning of Section 2(11) of the Securities Act. As a result, the SEC may deem any profits the selling securityholders make by selling the securities and any discounts, commissions or concessions received by any broker-dealers or agents to be underwriting discounts and commissions under the Securities Act. Selling securityholders who are underwriters within the meaning of Section 2(11) of the Securities Act will be subject to the prospectus delivery requirements of the Securities Act. Selling securityholders may also be subject to liabilities under the securities laws, including Sections 11, 12 and 17 of the Securities Act and Rule 10b-5 under the Exchange Act. To our knowledge, there are currently no plans, arrangements or understandings between any selling securityholders and any underwriter, broker-dealer or agent regarding the sale of the securities.

The selling securityholders and any other person who participates in distributing the securities will be subject to the Exchange Act. The Exchange Act rules include Regulation M (or any successor rules or regulations), which may limit the timing of purchases and sales of any of the securities by the selling securityholders and any other person. In addition, Regulation M may restrict the ability of any person engaged in the distribution of the securities to engage in market-making activities with respect to the particular securities being distributed for a period of up to five business days before beginning to distribute the securities. This may affect the securities' marketability and the ability of any person or entity to engage in market-making activities with respect to the securities.

The selling securityholders may sell the securities in one or more transactions at:

fixed prices;

prevailing market prices at the time of sale;

varying prices determined at the time of sale; or

negotiated prices.

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These sales may be effected in transactions:

on any national securities exchange or quotation service on which the securities are listed or quoted at the time of the sale, including the Nasdaq National Market in the case of the common stock;

in the over-the-counter market;

in transactions other than transactions on national securities exchanges, quotation services or in the over-the-counter market; or

through the writing of options.

These transactions may include block transactions or crosses. Crosses are transactions in which the same broker acts as an agent on both sides of the transaction.

In connection with sales of the securities or otherwise, any selling securityholder may:

enter into hedging transactions with broker-dealers, who may in turn engage in short sales of the securities in the course of hedging the positions they assume;

sell the securities short and deliver the securities to close out their short positions; or

loan or pledge the securities to broker-dealers, who may in turn sell the securities.

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We cannot assure you that any selling securityholder will sell any or all of the securities using this prospectus. In addition, any securities covered by this prospectus that qualify for sale under Rule 144 or Rule 144A of the Securities Act may be sold under Rule 144 or Rule 144A rather than under this prospectus. The selling securityholders also may transfer, devise or gift the securities by other means not described in this prospectus.

To comply with the securities laws of some states, if applicable, the selling securityholders may only sell the securities in these jurisdictions through registered or licensed brokers or dealers.

Our common stock trades on the Nasdaq National Market under the symbol KLIC. The notes are eligible for trading in The PORTAL Market of the National Association of Securities Dealers, Inc. We do not intend to apply for listing of the notes on any securities exchange or for quotation through Nasdaq. Accordingly, we cannot assure you that selling securityholders will be able to sell the notes or that any trading market for the notes will develop. See Risk Factors. In certain circumstances this registration statement may not be used to resell the notes and the common stock issuable upon their conversion; there is no prior public market for the notes, if an active trading market does not develop for the notes you may not be able to resell them.

With respect to a particular offering of the securities, to the extent required, we will file an accompanying prospectus supplement or, if appropriate, a post-effective amendment to the registration statement of which this prospectus is a part, disclosing the following information:

the specific notes or common stock to be offered and sold;

the names of the selling securityholders;

the respective purchase prices and public offering prices and other material terms of the offering;

the names of any participating agents, broker-dealers or underwriters; and

any applicable commissions, discounts, concessions and other items constituting compensation from the selling securityholders.

The registration rights agreement pursuant to which the registration statement was filed of which this prospectus forms a part 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.

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LEGAL MATTERS

Drinker Biddle & Reath LLP, Philadelphia, Pennsylvania has provided us with an opinion as to the validity of the securities offered by this prospectus.

EXPERTS

The consolidated financial statements incorporated by reference into this prospectus by reference to Kulicke and Soffa 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 notes and the underlying common stock 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, the notes and the underlying common stock 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;

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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;

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.

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

The aggregate estimated (other than the registration fee) expenses to be paid by the registrant in connection with the sale of the notes and the underlying common stock are as follows:

Securities and Exchange Commission registration fee	\$ 8,236
Printing and Engraving Expenses	\$ 15,000
Trustee fees and expenses	\$ 10,000
Accounting fees and expenses	\$ 16,000
Legal fees and expenses	\$ 65,000
Miscellaneous	\$ 10,000
	<hr/>
Total	\$ 124,236

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.

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ITEM 16. EXHIBITS

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

EXHIBIT NUMBER	ITEM
2(i)	Agreement and Plan of Merger, dated as of October 11, 2000, by and among Kulicke and Sofa 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.
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 Sofa 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)	Form of Note (included in Exhibit 4(iv)).
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 ⁽¹⁾	Power of Attorney.
25 ⁽¹⁾	Form T-1 Statement of Eligibility of Trustee for Indenture under the Trust Indenture Act of 1939.

(1) Previously filed.

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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.

Table of Contents**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		

* /s/ C. William Zadel

Director

June 30, 2005

C. William Zadel

Power of Attorney:

* By: /s/ Maurice E. Carson
Maurice E. Carson

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