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SIMTEK CORP
Form S-2
June 22, 2005

As filed with the Securities and Exchange Commission on June 22, 2005

Registration 333-

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Form S-2

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

SIMTEK CORPORATION
(Exact name of registrant as specified in its charter)

Colorado
(State or other jurisdiction
of incorporation or organization)

84-1057605
(I.R.S. Employer
Identification No.)

4250 Buckingham Dr. #100
Colorado Springs, Colorado 80907
(719) 531-9444
(Address, including zip code, and telephone number,
including area code, of Principal Executive Offices)

Harold Blomquist
Chief Executive Officer and President
Simtek Corporation
4250 Buckingham Dr. #100
Colorado Springs, CO 80907
(719) 531-9444
(Name, address, including zip code and telephone
number, including area code, of agent for service)

Copies to:
Hendrik F. Jordaan, Esq.
Holme Roberts & Owen LLP
90 S. Cascade Avenue, Suite 1300
Colorado Springs, CO 80903
(719) 473-3800

Approximate Date of Commencement of Proposed Sale to the Public: From time
to time after the effective date of this Registration Statement.

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 check the following box: [X]

If the registrant elects to deliver its latest annual report to security
holders, or a complete and legible facsimile thereof, pursuant to Item 11(a)(1)
of this Form, check the following box: [X]

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

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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 this Form is a post-effective amendment filed pursuant to Rule 462 (d) 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. []

CALCULATION OF REGISTRATION FEE(1)

Title of each class of securities to be registered	Amount to be registered(1)	Proposed maximum offering price per share	Proposed maximum aggregate offering price	Amount registration
Common stock, \$.01 par value per share	19,208,183	\$0.41 (2)	\$7,971,396	\$ 926.
Common stock, \$.01 par value per share	5,055,612	\$0.7772 (3)	\$3,929,222	\$ 462.
Common stock, \$.01 par value per share	375,000	\$1.25 (3)	\$468,750	\$ 55.
Common stock, \$.01 par value per share	375,000 -----	\$1.50 (3)	\$562,500 -----	\$ 66. -----
Total	25,013,795 =====		\$12,031,868 =====	\$1,510. =====

(1) Comprises 18,358,183 shares of common stock issued, 850,000 shares of common stock issuable under certain agreements with certain of our current and former officers and directors, and 5,805,612 shares of common stock issuable upon exercise of warrants with exercise prices of \$0.7772, \$1.25 and \$1.50 per share.

(2) With respect to 19,208,183 shares of common stock, estimated solely for purpose of calculating the registration fee pursuant to Rule 457(c), based on the average of the bid and the asked prices of our common stock as reported on the Over-the-Counter Bulletin Board on June 17, 2005.

(3) Estimated solely for purposes of calculating the registration fee pursuant to Rule 457(g).

(4) The registrant, Simtek Corporation, previously paid a registration fee of \$427.46 in connection with the Registration Statement on Form SB-2 (File

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No. 333-111408) initially filed on November 18, 2004 and a registration fee of \$611.62 in connection with the Registration Statement on Form SB-2 (File No. 333-120586) initially filed on November 26, 2003; the securities offered under such registration statements remain unsold and the registrant has withdrawn such registration statements. Accordingly, pursuant to Rule 457(p), the registration fee payable with respect to this registration statement on Form S-2 is offset by \$1,039.08 from \$1,522.07 to \$482.99.

THE REGISTRANT HEREBY AMENDS THIS REGISTRATION STATEMENT ON SUCH DATE OR DATES AS MAY BE NECESSARY TO DELAY ITS EFFECTIVE DATE UNTIL THE REGISTRANT SHALL FILE A FURTHER AMENDMENT WHICH SPECIFICALLY STATES THAT THIS REGISTRATION STATEMENT SHALL THEREAFTER BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8 (A) OF THE SECURITIES ACT OF 1933 OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(A), MAY DETERMINE.

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

PROSPECTUS (SUBJECT TO COMPLETION) DATED JUNE 22, 2005
25,013,795 Shares

SIMTEK CORPORATION

Common stock

This prospectus is being used to register 25,013,795 shares of Simtek Corporation's common stock being offered by the selling security holders, Renaissance Capital Growth and Income Fund III, Inc., Renaissance US Growth & Investment Trust PLC, BFSUS Special Opportunities Trust PLC, Cypress Semiconductor Corporation and certain of our current and former officers and directors.

We issued 1,651,983 of these shares to Renaissance Capital Growth and Income Fund III, Inc., Renaissance US Growth & Investment Trust PLC, BFSUS Special Opportunities Trust PLC, or the "RENN Capital Group," in exchange for a \$1,500,000 equity financing that the RENN Capital Group completed with us on November 7, 2003. 750,000 of the shares that we are registering relate to warrants that we issued to the RENN Capital Group incident to this November 2003 transaction. In addition, 9,615,384 of the shares that we are registering are issuable upon exercise of 7.5% convertible debentures that we issued to the RENN Capital Group incident to a \$3,000,000 financing transaction in 2002.

We have issued 6,740,816 of the shares that we are registering, and are required to issue an additional 5,055,612 of the shares that we are registering upon exercise of warrants that we issued, to Cypress Semiconductor Corporation, or "Cypress." We issued such shares and warrants to Cypress in exchange for a \$4,000,000 equity financing incident to a production and development agreement

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that Cypress completed with us on May 4, 2005.

Mr. Harold Blomquist, our current President and Chief Executive Officer, purchased 200,000 of the shares that we are registering at a purchase price of \$0.542 per share in May 2005, is entitled to be issued another 200,000 of these shares pursuant to his employment agreement with us and may purchase or be granted an additional 600,000 of these shares. In addition, we issued 150,000 of these shares to Mr. Douglas Mitchell, our former President, Chief Executive Officer and Chief Financial Officer (acting) and he may be entitled to be issued another 50,000 of these shares pursuant to the terms of his separation agreement with us.

The selling security holders may from time to time offer and sell the shares offered under this prospectus in a number of different ways and at varying prices. We provide more information about how the selling security holders may sell the shares in the section entitled "Plan of Distribution" beginning on page 13. The selling security holders will receive all of the proceeds from the sale of the shares. The selling security holders will pay all underwriting discounts and selling commissions, if any, applicable to the sale of the shares. We will not receive any proceeds from the sale of the shares other than the exercise price payable to us upon the exercise of the warrants.

Our common stock is traded on the OTC Bulletin Board under the symbol "SRAM." On June 17, 2005, the closing sale price of our common stock was \$0.41 per share.

See "Risk Factors" beginning on page 5 to read about factors you should consider before buying our stock.

Neither the Securities and Exchange Commission nor state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of the prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is June ____, 2005.

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SUMMARY

This summary highlights selected information from this prospectus and does not contain all of the information that may be important to you. Please carefully read the entire prospectus and the documents incorporated by reference.

OUR COMPANY

We develop, market and subcontract the production of nonvolatile semiconductor memories. Nonvolatility prevents loss of programs and data when electrical power is removed from the semiconductor. Our memory products feature fast data access and programming speeds. Our products are targeted for use in commercial or military electronic equipment markets. These markets are industrial control systems, office automation, medical instrumentation, telecommunication systems, cable television, and numerous military systems, including communications, radar, sonar and smart weapons. Our wholly owned subsidiary, Q-DOT Group, Inc., specializes in advanced technology research and development for data acquisition, signal processing, imaging and data communications.

Our principal executive office is located at 4250 Buckingham Dr. #100; Colorado Springs, Colorado 80907. Our telephone number is 719-531-9444.

THE OFFERING

We are registering 12,017,367 shares of our common stock that may be offered for resale by Renaissance Capital Growth and Income Fund III, Inc., Renaissance US Growth & Investment Trust PLC, BFSUS Special Opportunities Trust PLC, or, collectively, the RENN Capital Group. Additionally, we are registering 11,796,428 shares of our common stock that may be offered for resale by Cypress Semiconductor Corporation, or Cypress. In addition, we are registering 1,200,000 shares of our common stock that may be offered for resale by Mr. Harold

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Blomquist, our President and Chief Executive Officer, and Mr. Douglas Mitchell, our former President, Chief Executive Officer and Chief Financial Officer (acting). We refer to these entities and individuals collectively as the "selling security holders."

On July 1, 2002, we received \$3,000,000 from the RENN Capital Group in return for issuing 7.5% convertible debentures with an aggregate principal amount of \$3,000,000. The convertible debentures have a conversion rate of \$0.312 and a maturity date of June 28, 2009. On November 7, 2003, we received \$1,500,000 from the RENN Capital Group in return for issuing 1,651,983 shares of our common stock and warrants to acquire 750,000 shares of our common stock. The warrants have 5-year terms with an exercise price of \$1.25 per share for 375,000 shares and \$1.50 per share for 375,000 shares. 12,017,367 of the 25,013,795 shares that we are registering relate to these July 1, 2002 and November 7, 2003 transactions.

On May 4, 2005, we received \$4,000,000 from Cypress in return for issuing 6,740,816 shares of our common stock and warrants to acquire 5,055,612 shares of our common stock. The warrants have 10-year term with an exercise price of \$0.7772. 11,796,428 of the 25,013,795 shares that we are registering relate to this transaction.

On May 19, 2005 and pursuant to his employment agreement with us, Mr. Blomquist purchased 200,000 shares of our common stock directly from us at a purchase price of \$0.542 per share. The purchase price was determined by calculating the average close price for the five trading days prior to May 19, 2005. Per the terms of Mr. Blomquist's employment agreement, he is entitled to be issued an additional 200,000 shares of our common stock to match his stock purchase. If Mr. Blomquist chooses, he may purchase up to an additional 300,000 shares of our common stock directly from us and per the terms of Mr. Blomquist's employment agreement we are required to match this stock purchase on a one-for-one basis (up to 300,000 matching shares). Per the terms of Mr. Mitchell's separation agreement incident to his resignation as a Simtek officer and director, we issued to Mr. Mitchell 150,000 shares of our common stock and agreed that he may become entitled, upon the occurrence of certain events, to be issued an additional 50,000 shares of our common stock. 1,200,000 of the shares that we are registering relate to these two agreements.

Risk Factors

YOU SHOULD CONSIDER CAREFULLY THE FOLLOWING RISK FACTORS, AS WELL AS THE OTHER INFORMATION IN THIS PROSPECTUS BEFORE BUYING OUR SHARES. THE SEMICONDUCTOR INDUSTRY IS CHANGING RAPIDLY. THEREFORE, THE FORWARD-LOOKING STATEMENTS AND STATEMENTS OF EXPECTATIONS, PLANS AND INTENT IN THIS PROSPECTUS ARE SUBJECT TO A GREATER DEGREE OF RISK THAN SIMILAR STATEMENTS REGARDING SOME OTHER INDUSTRIES.

OUR LIMITED OPERATING CAPITAL AND OUR ABILITY TO RAISE ADDITIONAL MONEY MAY HARM OUR ABILITY TO DEVELOP AND MARKET OUR PRODUCTS

To date, we have required significant capital for product development, subcontracted production and marketing. We have funded these from the sale of products, the sale of product and technology licenses and from royalties as well as from the sale of our convertible debt and equity securities.

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We have not seen any significant increase in our product sales in the past year and our gross margins are less than we had anticipated. Therefore, our cash requirements for the development, subcontracted production and marketing of our existing product families have been difficult to maintain. We are not sure whether we will be able to achieve an increase in product sales and gross margins. We may need more capital in the next year and after that to develop new products. We are not sure that we will be able to raise more capital on reasonable terms, if at all. If we cannot, then we may not be able to develop and market new products. The development, subcontracted production and marketing of our existing products may also suffer, causing our financial position and stock price to deteriorate.

WE MAY EXPERIENCE OPERATING LOSSES IN THE NEXT SEVERAL YEARS

We began business in 1987. Through March 31, 2005, we had accumulated losses of approximately \$41.0 million. We realized net income for the first time for the year ended December 31, 1997 and continued to realize net income through June 30, 2000. Subsequent to June 30, 2000 and through March 31, 2005, we realized net losses primarily as a result of accounting charges from the purchase of incomplete research and development in September 2000, decreased revenue, decreased gross margins and increased research and development costs related to new product development. We may continue to experience net operating losses for the foreseeable future. Continuing net operating losses could materially harm our results of operations, increase our need for additional capital in the future, and hurt our stock price.

WE MIGHT NOT BE ABLE TO RE-GAIN COMPLIANCE WITH CERTAIN COVENANTS SET FORTH IN OUR LOAN AGREEMENT WITH THE RENN CAPITAL GROUP; IF WE ARE UNABLE TO DO SO, THE RENN CAPITAL GROUP COULD ACCELERATE THE \$3 MILLION LOAN AND FORECLOSE ON THE COLLATERAL THAT WE GRANTED TO IT

Our loan agreement with RENN Capital Group, formerly Renaissance Capital Group, Inc., contains various financial covenants. As of March 31, 2005, we were not in compliance with two of the covenants set forth in the loan agreement which covenants relate to the interest coverage ratio and debt to equity ratio. On May 10, 2005, we received a waiver for the two covenants through April 1, 2006. However, significant variances in future actual operations from our current estimates could result in the reclassification of this note to a current liability. If the note becomes due and we cannot pay it, RENN Capital Group may foreclose on the assets that we pledged as security for the note. This would significantly harm our business.

WE ARE REQUIRED TO BEGIN MAKING INSTALLMENT PAYMENTS TO THE HOLDERS OF THE RENN CAPITAL GROUP DEBENTURES

Per the terms of the debenture agreements entered into with RENN Capital Group, we are required to begin making principal installment payments on a monthly basis if the debentures have not been converted to our common stock. The amount of each installment payment will be \$10 per \$1,000 of the remaining principal amount. We currently have outstanding \$3,000,000 of principal amount under these debentures. If we are unable to negotiate acceptable terms to extend

the repayment terms or if the debentures are not converted, the payments could materially harm our cash balance.

BECAUSE OUR COMMON STOCK IS LISTED ONLY ON THE OTC ELECTRONIC BULLETIN BOARD, IT WILL BE MORE DIFFICULT TO SELL OUR COMMON STOCK

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Our common stock is listed on the OTC Electronic Bulletin Board under the symbol "SRAM." Our common stock was listed on the Nasdaq Small-Cap Market until July 18, 1995, but, because we no longer met Nasdaq's listing requirements, our common stock transferred to the OTC Electronic Bulletin Board as mandated by Nasdaq rules. We may not be able to meet the requirements for relisting our common stock on Nasdaq or listing on any other exchange in the near future or in the longer term.

Securities that are not listed on the Nasdaq Small-Cap Market or other exchange are subject to a Securities and Exchange Commission rule that imposes special requirements on broker-dealers who sell those securities to persons other than their established customers and accredited investors. The broker-dealer must determine that the security is suitable for the purchaser and must obtain the purchaser's written consent prior to the sale. These requirements may make it more difficult for our security holders to sell their securities and may affect our ability to raise more capital. It may also make it harder for you to sell our stock than the stock of some other companies.

IF WE CANNOT RECEIVE SILICON WAFERS WE REQUIRE TO MANUFACTURE OUR PRODUCTS FROM CHARTERED SEMICONDUCTOR MANUFACTURING AT THE VOLUMES OR THE PRICES WE REQUIRE, OUR REVENUES, EARNINGS AND STOCK PRICE COULD SUFFER

We currently purchase the silicon wafers we require to build our 16 kilobit, 64 kilobit, 5 volt 256 kilobit and 3 volt 256 kilobit memory products from Chartered Semiconductor Manufacturing Plc. of Singapore, or Chartered. We have not had a manufacturing contract with Chartered since 1998. However, we have maintained a good relationship with Chartered for the pricing and delivery of our wafers. Due to our not having a contract with Chartered and the volatility of the semiconductor market, we may have no control over the pricing and availability of the wafers we require in order to build our products. The risk of not receiving the products and pricing we need from Chartered has escalated, but we are evaluating alternative sources of supply. We believe we may have an alternative source for our 3 volt 256 kilobit memory product. However, we cannot assure you that we will secure this or any alternative source. In addition, we do not have an alternative source for our 16 kilobit, 64 kilobit and 5 volt 256 kilobit memory products at this time. If we are unable to obtain the products and pricing we need, our business could suffer.

SINCE WE DEPEND GREATLY ON SUBCONTRACTORS, THEIR POOR PERFORMANCE COULD HURT OUR OPERATIONS

We subcontract the silicon wafer processing, product assembly, and product testing portions of our business to independent companies. Our operating results depend on these subcontractors' ability to supply us with silicon wafers that meet our specifications and to assemble and test enough of our products to meet our customers' needs.

We have depended on Chartered to manufacture all of our silicon wafers for our 0.8-micron memory products which accounted for approximately 86% of our total revenue for 2004. These wafers are the raw materials required to manufacture our semiconductor products. Without these wafers, we would be unable to sell our products. If Chartered is unable to meet our silicon wafer needs on time and at a price that we find acceptable, we would have to find another wafer manufacturer. If we cannot find other suppliers, manufacturers or assemblers on acceptable terms, we may not be profitable. In addition, our subcontractors must be audited and recertified by us on a regular basis for us to continue to produce military-qualified products. We cannot assure you that we will be able to complete this recertification successfully or in a timely manner.

THE UNCERTAINTY INVOLVED IN MANUFACTURING SEMICONDUCTORS MAY INCREASE THE COSTS AND DECREASE THE PRODUCTION OF OUR PRODUCTS

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In order for us to be profitable, we must keep our manufacturing costs down and secure the production of sufficient product. Semiconductor manufacturing depends on many factors that are very complex and beyond our control and often

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beyond the control of our subcontractors. These factors include contaminants in the manufacturing environment, impurities in the raw materials used and equipment malfunctions. Under our arrangements with our subcontractors, our subcontractors pass on to us substantially all of their costs that are unique to the manufacture of our products. Accordingly, these factors could increase the cost of manufacturing our products and decrease our profits. These factors could also reduce the number of semiconductors that our subcontractors are able to make in a production run. If our subcontractors produce fewer of our products, our revenues may decline.

DELAYS IN MANUFACTURING MAY NEGATIVELY IMPACT OUR REVENUE AND NET INCOME

It takes approximately three months for us to manufacture our semiconductors. Any delays in receiving silicon wafers from our subcontractors will delay our ability to deliver our products to customers. This would delay sales revenue and could cause our customers to cancel existing orders or not place future orders. In addition, if we are not able to make all of our planned semiconductors in a production run this could delay delivery of our products. These delays could occur at any time and would affect our net income.

WE DEPEND ON INDEPENDENT SALES REPRESENTATIVES AND DISTRIBUTORS TO SELL OUR PRODUCTS AND THE TERMINATION OF ANY OF THESE RELATIONSHIPS MAY HARM OUR REVENUE

We use independent sales representatives and distributors to sell the majority of our products. The agreements with these sales representatives and distributors can be terminated without cause by either party with only 30 to 90 days written notice. If one or more of our sales representatives or distributors terminates our relationship, we may not be able to find replacement sales representatives and distributors on acceptable terms or at all. This would affect our profitability. In addition, during 2004 approximately 35% of our product sales were to three distributors. We cannot be certain that we will be able to maintain our relationship with these distributors.

DELAYS IN OR FAILURE OF PRODUCT QUALIFICATION MAY HARM OUR BUSINESS

Prior to selling a product, we must establish that it meets expected performance and reliability standards. As part of this testing process, known as product qualification, we subject representative samples of products to a variety of tests to ensure that performance in accordance with commercial, industrial and military specifications, as applicable. If we are unable to successfully accomplish product qualification for our future products, we will be unable to sell these future products. Even with successful initial product qualifications, we cannot be assured that we will be able to maintain product qualification or achieve sufficient sales to meet our operating requirements.

SINCE THE SEMICONDUCTOR INDUSTRY IS FAST CHANGING, OUR SUCCESS DEPENDS ON OUR ABILITY TO INTRODUCE NEW PRODUCTS

The semiconductor industry is characterized by rapid changes in technology and product obsolescence. Our success in the semiconductor industry depends in part upon our ability to expand our existing product families and to develop and market new products. The technology we currently use may be made obsolete by

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other competing or newly developed memory or other technologies. The development of new semiconductor designs and technologies typically requires substantial costs for research and development. Even if we are able to develop new products, the success of each new product depends on several factors including whether we selected the proper product and our ability to introduce it at the right time, whether the product is able to achieve acceptable production yields and whether the market accepts the new product. We cannot guarantee you that we will be successful in developing new products or whether any products that we do develop will satisfy the above factors. In September 2003, we began shipping samples of our 1 megabit 3 volt nonvolatile semiconductor memory product. We cannot assure you that we will not discover technical problems or manufacturing concerns with this new product, that demand will develop for the new product or that we will be able to sell this new product at a profit.

THE CYCLICALITY OF THE SEMICONDUCTOR INDUSTRY MAY PREVENT US FROM MAINTAINING A CONSISTENT REVENUE STREAM AND MAY HARM OUR STOCK PRICE

The semiconductor industry has historically experienced significant peaks and valleys in sales volumes resulting in large variations of revenues and resulting profits or losses. We do not have direct influence on the nature of

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the broad semiconductor market. Variations in the revenues and profits within the semiconductor industry may cause us to incur significant losses in the future. If the stock prices of many semiconductor companies decrease, our stock price may also suffer. Recently, the semiconductor industry has experienced increased losses and the stock prices of many semiconductor companies, including us, have fluctuated.

OUR AGREEMENT WITH DONGBUANAM SEMICONDUCTOR TO CO-DEVELOP A SEMICONDUCTOR PROCESS MODULE THAT COMBINES OUR NONVOLATILE TECHNOLOGY WITH ITS ADVANCED 0.25 MICRON DIGITAL COMPLEMENTARY METAL-OXIDE SEMICONDUCTOR FABRICATION WILL RESULT IN SIGNIFICANT EXPENDITURES

We entered into an agreement with Amkor Technology to cooperate to develop a semiconductor process module that combines our nonvolatile technology with Amkor's advanced 0.25 micron digital complementary metal-oxide semiconductor, or "CMOS," fabrication line. The module incorporates silicon oxide nitride oxide silicon technology, which will be used to manufacture both high density silicon oxide nitride oxide silicon flash and nonvolatile Static Random Access memories, for stand alone and embedded products. Through 2004, our research and development team along with Amkor's research and development team worked aggressively on the co-development program. The co-development program is scheduled to yield a qualified 1 megabit 3.0 volt nonvolatile Static Random Access memory as the primary development vehicle. In February 2003, Amkor Technology sold a controlling interest of its wafer fabrication facility to DongbuAnam Semiconductor. All contractual obligations were transferred to Anam U.S.A., a wholly-owned subsidiary of DongbuAnam Semiconductor. Our co-development program has not been affected by the change in ownership and we do not expect any material changes in the support required to complete the program. There could, however, be changes made by the newly combined management team that could postpone or cancel this co-development project.

Since entering into the agreement with DongbuAnam Semiconductor we estimate that we have spent approximately \$6,500,000 in development costs. These costs include increases in headcount, contract engineering services, equipment leases, maintenance agreements for software and wafer fabrication costs. If DongbuAnam Semiconductor terminates our agreement there is no guarantee that we could find

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a suitable replacement. If we cannot find a replacement, a significant delay and cost increase in the introduction of new products could result.

IF WE CANNOT REDUCE MANUFACTURING COSTS RELATED TO OUR NEW 0.25 MICRON 1 MEGABIT AND 256 KILOBIT MEMORY PRODUCT FAMILY, OR RECEIVE THE SILICON WAFERS WE REQUIRE TO MANUFACTURE OUR PRODUCTS FROM DONGBUANAM SEMICONDUCTOR AT THE VOLUMES OR THE PRICES WE REQUIRE, OUR REVENUES, EARNINGS AND STOCK PRICE COULD SUFFER

During 2004 and the first quarter of 2005, we began receiving silicon wafers from DongbuAnam Semiconductor. The silicon wafers received from DongbuAnam Semiconductor are used in the manufacture of our new 0.25 micron product family. We are currently shipping our family of 1-megabit nonvolatile semiconductor memory products tested to production requirements on a provisional qualification and plan to have qualification complete in late 2005. Currently, the manufacturing yields from these silicon wafers do not meet the requirements we need in order to attain a cost effective solution. Our engineering department, along with DongbuAnam's engineering department, is focusing on increasing this manufacturing yield

Through 2004 and the first quarter of 2005, the manufacturing cost related to probing and testing of our 0.25 micron memory product family has been higher than is cost-effective in volume production. Our engineering department is developing test programs intended to reduce these costs. We are exploring increased use of outside subcontractors for both wafer probe and final test to reduce the cost of these operations and to reduce cycle time of the production steps after wafer manufacturing is complete. If we cannot reduce these costs or improve our manufacturing yields and cycle times on our 0.25 micron memory product family our gross margins could suffer.

We currently purchase the silicon wafers we require to build our 0.25 micron product family from DongbuAnam Semiconductor. We do not have an alternate source for our 0.25 micron memory products, at this time. If we cannot purchase the silicon wafers we require to produce these products from DongbuAnam at the volumes or the prices we require, our business could suffer.

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IF WE FAIL TO COMPLETE OUR AGREEMENT OR IF WE FAIL TO SUCCESSFULLY IMPLEMENT PRODUCTS WITH CYPRESS SEMICONDUCTOR, OUR LIQUIDITY AND REVENUES MAY SUFFER

On May 5, 2005, we closed a share purchase agreement for a \$4 million private placement of 6,740,816 shares of our common stock with Cypress Semiconductor Corporation and a production and development agreement with Cypress to jointly develop an "S8" 0.13-micron silicon-oxide-nitride-oxide-silicon (SONOS) nonvolatile memory production process. The production and development agreement also calls for Cypress to produce one or more Simtek products, as designated by Simtek, using the S8 process. We cannot assure you that we will be able to successfully develop and bring to qualified volume production products based on the S8 process or that Cypress will be able to develop embedded products contemplated to be developed using Simtek's intellectual property. If the development of the S8 process is delayed or fails, or if Cypress is unable to meet our production requirements, we might not be able to meet potential future orders planned to be received from our customers. This could significantly harm our revenue and future growth potential. We also entered into an escrow agreement pursuant to which we deposited \$3 million into an escrow account in order to support and make certain payments for the S8 process and product developments. If we fail to complete the development and production agreement, we might forfeit our rights to the escrow amount. This could harm our liquidity position.

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OUR AGREEMENT WITH CYPRESS SEMICONDUCTOR CORPORATION MAY CONSUME OUR LIMITED RESOURCES OF ENGINEERS AND CONSUME A SIGNIFICANT AMOUNT OF OUR WORKING CAPITAL PREVENTING US FROM COMPLETING OTHER TASKS

Our production and development agreement with Cypress may consume a considerable amount of our engineering resources, which may limit the resources available to maintain or improve our production yields on our existing products and develop other new and derivative products. In addition to these indirect expenses related to our engineering resources, our obligations under the production and development agreement will consume a significant amount of our working capital until December 31, 2006. This may harm our business and stock price.

THE INTENSE COMPETITION IN THE SEMICONDUCTOR INDUSTRY MAY CAUSE US TO LOSE SALES REVENUE TO OTHER SUPPLIERS

There is intense competition in the semiconductor industry. We experience competition from a number of domestic and foreign companies, most of which have significantly greater financial, technical, manufacturing and marketing resources than we have. Our competitors include major corporations with worldwide silicon wafer fabrication facilities and circuit production facilities and diverse, established product lines. We also compete with emerging companies, such as Ramtron International Corporation, attempting to obtain a share of the market for our product families. If any of our new products achieve market acceptance, other companies may sell competitive products at prices below ours. This would have an adverse effect on our operating results. We have sold product and technology licenses to Zentrum Mikroelektronik Dresden. We have granted this company unlimited rights to much of our technology through its license agreements with us. Zentrum Mikroelektronik Dresden has entered the market and has become one of our significant competitors.

GIVEN THE SCARCITY OF TRAINED PERSONNEL IN THE SEMICONDUCTOR INDUSTRY, THE LOSS OF KEY EMPLOYEES COULD MATERIALLY AFFECT OUR FINANCIAL RESULTS

Our success depends in large part on our ability to attract and retain qualified technical and management personnel. There are limited personnel trained in the semiconductor industry resulting in intense competition for these personnel. If we lose any of our key personnel, this could have a material adverse affect on our ability to conduct our business and on our financial results.

OUR PATENTS MAY NOT PROVIDE US EFFECTIVE INTELLECTUAL PROPERTY PROTECTION; THIS COULD HARM OUR BUSINESS

We have been issued 30 U.S. patents relating to specific aspects of our current products. We have also applied outside the United States for patents on our technology. We are not sure that any of the patents for which we have applied will be issued or, even if they are issued, will provide us with meaningful protection from competition. We may also not have the money required to maintain or enforce our patent rights. Notwithstanding our patents, other companies may obtain patents similar or relating to our patents.

We seek to protect a significant portion of our intellectual property as trade secrets, rather than patents. Unlike patents, trade secrets must remain

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We cannot assure you that our trade secrets will remain confidential. If we lose trade secret protection, our business could suffer.

IF OUR PRODUCTS AND TECHNOLOGY INFRINGE ON THIRD PARTY PATENTS, OUR PRODUCT SALES MAY SUFFER

We have not determined whether our products are free from infringement of others' patents. If patent infringement claims are asserted against us and are upheld, we will try to modify our products so that they are non-infringing. If we are unable to do so, we will have to obtain a license to sell those products or stop selling the products for which the claims are asserted. We may not be able to obtain the required licenses. Any successful infringement claim against us, our failure to obtain any required license or requirement for us to stop selling any of our products, may force us to discontinue production and shipment of these products. This may result in reduced product sales and harm our revenues.

In 1998, we received notice of a claim for an unspecified amount from a foundation that owns approximately 180 patents and 70 pending applications. The foundation claimed that some of the machines and processes used in the building of our semiconductor devices infringe on the foundation's patents. In April 1999, we reached an agreement with the foundation for us to purchase a nonexclusive license of the foundation's patents, based on our product offerings and sales forecast at that time. If our products or actual sales revenue vary significantly from the time of the agreement, we may be subject to additional payments.

In late 2002, we received notice of possible patent infringement from a corporation that has acquired a portfolio of patents. We have reviewed the claim and believe there are no potential infringements. As of December 31, 2004 we have received no further notification from this corporation. If there are any infringements, we believe we will be able to enter into a licensing agreement with such company without any material impact on us.

FOREIGN CURRENCY EXCHANGE RATE FLUCTUATIONS MAY INCREASE OUR COSTS, LOWER OUR REVENUES AND CAUSE LOSS OF CUSTOMERS TO OUR COMPETITORS

We purchase materials, including silicon wafers, from outside the United States. In 2004, over 62% of our sales were to customers located outside of the United States. We operate using United States dollars as the functional currency. Changes in foreign currency exchange rates can reduce our revenues and increase our costs. For example, our subcontractors may increase the prices they charge us, on a per purchase order basis, for silicon wafers if the United States dollar weakens. Any large exchange rate fluctuation could affect our ability to compete with manufacturers who operate using foreign currencies. We do not try to reduce our exposure to these exchange rate risks by using hedging transactions. Although we have not had any material losses due to exchange rate fluctuations over the last three years, we cannot assure you that we will not incur significant losses in the future.

IF WE ISSUE SECURITIES AT LOW PRICES IN THE FUTURE, SOME OF OUR SECURITY HOLDERS MAY BE ENTITLED TO ACQUIRE MORE OF OUR SECURITIES, WHICH MAY DILUTE AND HARM THE HOLDERS OF OUR COMMON STOCK

We may be obligated under agreements with certain of our security holders to issue to them additional securities in exchange for little or no consideration if we sell our securities in the future at or below certain prices. The issuance of such securities could dilute and harm the holders of our common stock.

BECAUSE WE DO NOT INTEND TO PAY DIVIDENDS IN THE FORESEEABLE FUTURE, YOUR INVESTMENT RETURN MAY BE LIMITED

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We have never paid cash dividends on our common stock. We do not expect to pay dividends in the foreseeable future. We intend to use any earnings to finance growth. You should not expect to receive dividends on your shares of common stock.

IF OUR BOARD OF DIRECTORS AUTHORIZES THE ISSUANCE OF PREFERRED STOCK, HOLDERS OF OUR COMMON STOCK COULD BE DILUTED AND HARMED

Our board of directors has the authority to issue up to 2,000,000 shares of preferred stock in one or more series and to establish the preferred stock's

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voting powers, preferences and other rights and qualifications without any further vote or action by the shareholders. The issuance of preferred stock by our board of directors could dilute and harm the rights of the holders of our common stock. It could potentially be used to discourage attempts by others to obtain control of us through merger, tender offer, proxy contest or otherwise by making such attempts more difficult to achieve or more costly. Given our present capital requirements, it is possible that we may need to raise capital through the sale of preferred stock in the future.

STANDARDS FOR COMPLIANCE WITH SECTION 404 OF THE SARBANES-OXLEY ACT OF 2002 ARE UNCERTAIN, AND IF WE FAIL TO COMPLY IN A TIMELY MANNER, OUR BUSINESS COULD BE HARMED AND OUR STOCK PRICE WOULD DECLINE.

Rules adopted by the Securities and Exchange Commission pursuant to Section 404 of the Sarbanes-Oxley Act require annual assessment of our internal control over financial reporting, and attestation of our assessment by our independent auditors. This requirement may apply to our Annual Report on Form 10-K for the fiscal year ending December 31, 2005, or based on certain qualifying 2005 standards, for the fiscal year ending December 31, 2006. The standards that must be met for management to assess the internal control over financial reporting as effective are new and complex, and require significant documentation, testing and possible remediation to meet the detailed standards. We may encounter problems or delays in completing activities necessary to make an assessment of our internal control over financial reporting. In addition, the attestation process by our independent auditors is new and we may encounter problems or delays in completing the implementation of any requested improvements or remediation and receiving an attestation of our assessment by our independent auditors. We can provide no assurance as to our, or our independent auditors', conclusions at December 31, 2005 (or 2006 as required by regulations), with respect to the effectiveness of our internal control over financial reporting. The above factors creates a risk that we, or our independent auditors, will not be able to conclude at December 31, 2005 (or 2006 as required by regulations) that our internal controls over financial reporting are effective as required by the Sarbanes-Oxley Act. If we cannot assess our internal control over financial reporting as effective, or if our independent auditors are unable to provide an unqualified attestation report on such assessment, investors could lose confidence in our reported financial information and the trading price of our stock could drop.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains some "forward-looking statements" as defined in the Private Securities Litigation Reform Act of 1995 and information relating to us that are based on the beliefs of our management, as well as assumptions made

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by and the information currently available to our management. When used in this prospectus, the words "estimate," "project," "believe," "anticipate," "intend," "expect" and similar expressions are intended to identify forward-looking statements. These statements reflect our current views with respect to future events and are subject to risks and uncertainties that could cause actual results to differ materially from those contemplated in these forward-looking statements, including those risks discussed in this prospectus.

You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of this prospectus. Except for special circumstances in which a duty to update arises when prior disclosure becomes materially misleading in light of subsequent circumstances, we do not intend to update any of these forward-looking statements to reflect events or circumstances after the date of this prospectus or to reflect the occurrence of unanticipated events.

USE OF PROCEEDS

25,013,795 shares are covered by this prospectus. These shares include shares of common stock issued to the RENN Capital Group and Cypress and issuable upon conversion of debentures issued to the RENN Capital Group on July 1, 2002, upon exercise of warrants issued to the RENN Capital Group, upon exercise of warrants issued to Cypress, and 1,200,000 shares issued, or to be issued, under certain agreements with some of our current and former officers and directors. We will not receive any proceeds from the sale of the shares.

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SELLING SECURITY HOLDERS

The following table sets forth information about the selling security holders.

Name and Address of Selling Security Holders	Number of Shares Beneficially Owned Before Offering	Number of Shares Offered	Nu Fo the
Renaissance Capital Growth & Income Fund III, Inc. c/o RENN Capital Group 8080 N. Central Expressway, Suite 210-LB59 Dallas, TX 75206	5,005,789 (1)	4,005,789	1
Renaissance US Growth & Investment Trust PLC c/o RENN Capital Group 8080 N. Central Expressway, Suite 210-LB59 Dallas, TX 75206	5,005,789 (2)	4,005,789	1
BFSUS Special Opportunities Trust PLC c/o RENN Capital Group 8080 N. Central Expressway, Suite 210-LB59 Dallas, TX 75206	4,005,789	4,005,789	

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Cypress Semiconductor Corporation 3901 North First Street San Jose, CA 95134-1599	11,796,428	11,796,428
Harold Blomquist 13625 Antelope Station Poway, CA 92064	1,102,052 (3)	1,000,000
Douglas Mitchell 1725 Sunshine Circle Woodland Park, CO 80863	888,386 (4)	200,000

* Less than 1%

- (1) Includes 1,000,000 shares held by Renaissance Capital Growth & Income Fund III, Inc. that were issued in 2000 upon the conversion of debentures originally issued on June 12, 1998.
- (2) Includes 1,000,000 shares held by Renaissance US Growth & Investment Trust PLC that were issued in 2000 upon the conversion of debentures originally issued on June 12, 1998.
- (3) Includes 800 shares of our common stock that Mr. Blomquist's son personally owns and includes 101,250 shares issuable upon exercise of options.
- (4) Includes 168,386 shares of our common stock that Mr. Mitchell personally owns and includes 520,000 shares issuable upon exercise of options.

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DESCRIPTION OF SECURITIES

Our amended and restated articles of incorporation and bylaws provide for a classified board of directors when we have six or more directors. This may have the effect of delaying or preventing changes in control of our management, which could adversely affect the market price of our common stock by discouraging or preventing takeover attempts that might result in the payment of a premium price to our shareholders.

COMMON STOCK

We are authorized to issue 300,000,000 shares of common stock, par value \$0.01 per share. Each share of common stock entitles the holder thereof to one vote on all matters submitted to a vote of the shareholders. Holders of common stock do not have preemptive rights or rights to convert their common stock into other securities. Holders of common stock are entitled to receive ratably such dividends as may be declared by the board of directors out of funds legally available therefor. In the event of our liquidation, dissolution or winding up, holders of the common stock have the right to a ratable portion of the assets remaining after payment of liabilities. Part of the common stock offered in this prospectus is issuable to the RENN Capital Group under warrants to purchase

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750,000 shares of common stock. The warrants have a 5-year term with an exercise price of \$1.25 and \$1.50 per share.

PREFERRED STOCK

Our amended and restated articles of incorporation authorize 2,000,000 shares of \$1.00 par value preferred stock. The board of directors has the authority to issue preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof, including dividend rights, dividend rates, conversion rights, voting rights, terms of redemption, redemption prices, liquidation preferences and the number of shares constituting any series and the designation of such series, without further vote or action by the shareholders. The issuance of preferred stock may have the effect of delaying, deferring or preventing a change in control of us without further action by the shareholders and may adversely affect the voting power and other rights of the holders of common stock, including the loss of voting control to others. As of the date of this prospectus, there are no shares of preferred stock outstanding.

PLAN OF DISTRIBUTION

The selling security holders and any of their pledgees, donees, transferees, assignees and successors-in-interest may, from time to time, sell any or all of their shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. These sales may be at fixed or negotiated prices. The selling security holders may use any one or more of the following methods when selling shares:

- o ordinary brokerage transactions and transactions in which the broker-dealer solicits investors;
- o block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- o purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- o an exchange distribution in accordance with the rules of the applicable exchange;
- o privately negotiated transactions;
- o to cover short sales made after the date that this registration statement is declared effective by the Securities and Exchange Commission;
- o broker-dealers may agree with the selling security holders to sell a specified number of such shares at a stipulated price per share;
- o a combination of any such methods of sale; and
- o any other method permitted pursuant to applicable law.

The selling security holders may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus.

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Broker-dealers engaged by the selling security holders may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling security holders (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated. The selling security holders do not expect these commissions and discounts to exceed what is customary in the types of transactions involved.

The selling security holders may from time to time pledge or grant a security interest in some or all of the shares owned by them and, if they default in the performance of their secured obligations, the pledgees or secured parties may offer and sell shares of common stock from time to time under this prospectus, or under an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act of 1933 amending the list of selling security holders to include the pledgee, transferee or other successors in interest as selling security holders under this prospectus.

Upon us being notified in writing by a selling security holder that any material arrangement has been entered into with a broker-dealer for the sale of common stock through a block trade, special offering, exchange distribution or secondary distribution or a purchase by a broker or dealer, a supplement to this prospectus will be filed, if required, pursuant to Rule 424(b) under the Securities Act, disclosing (i) the name of each such selling security holder and of the participating broker-dealer(s), (ii) the number of shares involved, (iii) the price at which such the shares of common stock were sold, (iv) the commissions paid or discounts or concessions allowed to such broker-dealer(s), where applicable, (v) that such broker-dealer(s) did not conduct any investigation to verify the information set out or incorporated by reference in this prospectus, and (vi) other facts material to the transaction. In addition, upon us being notified in writing by a selling security holder that a donee or pledgee intends to sell more than 500 shares of common stock, a supplement to this prospectus will be filed if then required in accordance with applicable securities law.

The selling security holders also may transfer the shares of common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The selling security holders and any broker-dealers or agents that are involved in selling the shares may be deemed to be "underwriters" within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, that can be attributed to the sale of securities will be paid by the selling security holders and/or the purchasers. Each selling security holder has represented and warranted to us that it acquired the securities subject to this registration statement in the ordinary course of such selling security holder's business and, at the time of its purchase of such securities such selling security holder had no agreements or understandings, directly or indirectly, with any person to distribute any such securities.

We have advised each selling security holder that it may not use shares registered on this registration statement to cover short sales of common stock made prior to the date on which this registration statement shall have been declared effective by the Securities and Exchange Commission. If a selling security holder uses this prospectus for any sale of the common stock, it will be subject to the prospectus delivery requirements of the Securities Act. The

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selling security holders will be responsible to comply with the applicable provisions of the Securities Act of 1933 and the Securities Exchange Act of 1934, and the rules and regulations thereunder promulgated, including, without limitation, Regulation M, as applicable to such selling security holders in connection with resales of their respective shares under this registration statement.

We are required to pay all fees and expenses incident to the registration of the shares, but we will not receive any proceeds from the sale of the common stock. We have agreed to indemnify the selling security holders against certain losses, claims, damages and liabilities, including liabilities under the Securities Act. If the selling security holders use this prospectus for any sale of the common stock, they will be subject to the prospectus delivery requirements of the Securities Act.

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LEGAL MATTERS

The validity of the shares offered hereby will be passed upon by Holme Roberts & Owen LLP, Colorado Springs, Colorado.

EXPERTS

The financial statements of Simtek Corporation, included in our annual reports on Form 10-KSB for the years ended December 31, 2004 and December 31, 2003, have been audited by Hein & Associates LLP, Independent Registered Public Accounting Firm, as set forth in their reports which are incorporated by reference in this prospectus and registration statement. Our financial statements are incorporated by reference in reliance on Hein & Associates LLP's reports, given on their authority as experts in accounting and auditing.

AVAILABLE INFORMATION

This prospectus is part of a registration statement on Form S-2 that we filed with the Securities and Exchange Commission under the Securities Act of 1933. Certain information in the registration statement has been omitted from this prospectus in accordance with the rules of the Securities and Exchange Commission. We are subject to the information requirements of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). Accordingly, we file reports, proxy statements and other information with the Securities and Exchange Commission. You may inspect our reports, proxy statements and other information without charge at the Public Reference Room at 450 Fifth Street, N.W., Washington, D.C. 20549. You may obtain information on the operation of the Public Reference Room by calling the Securities and Exchange Commission at 1-800-SEC-0330. The Commission also maintains a web site at <http://www.sec.gov> that contains reports, proxy and information statements and other information regarding registrants that file electronically with the Commission. Additional information about Simtek can be obtained from our Internet website at <http://www.simtek.com>.

The Securities and Exchange Commission allows us to "incorporate by reference" certain of the information required by this prospectus, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is an important part of this prospectus. We incorporate by reference the documents listed below:

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- * Financial Statements section of the Annual Report on Form 10-KSB for the fiscal year ended December 31, 2003.
- * Annual Report on Form 10-KSB for the fiscal year ended December 31, 2004.
- * Quarterly Report on Form 10-Q for the quarter ended March 31, 2005.
- * Current Report on Form 8-K filed on May 10, 2005.
- * Current Report on Form 8-K filed on May 12, 2005.
- * Current Report on Form 8-K filed on May 12, 2005.
- * Current Report on Form 8-K filed on May 17, 2005.
- * Current Report on Form 8-K filed on May 23, 2005.
- * Current Report on Form 8-K filed on June 13, 2005.

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Upon receipt of an oral or written request we will provide, free of charge, to any person to whom a prospectus is delivered, a copy of any or all of the information that has been incorporated by reference in the prospectus but not delivered with the prospectus. Please direct your written requests to:

Simtek Corporation
4250 Buckingham Dr. #100
Colorado Springs, CO 80907
(719) 531-9444
Attention: Investor Relations

You should rely only on the information incorporated by reference or provided in this prospectus or any prospectus supplement. We have not authorized anyone else to provide you with different information. We are not making an offer of our Common Stock in any state where the offer is not permitted. You should not assume that the information in this prospectus or any prospectus supplement is accurate as of any date other than the date on the front page of those documents.

This prospectus is accompanied by a copy of our most recent Annual Report on Form 10-KSB (which is currently our Annual Report for the fiscal year ended December 31, 2004) as well as a copy of the Financial Statements section from our Annual Report on Form 10-KSB for the fiscal year ended December 31, 2003.

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PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION

The following table sets forth the expenses (other than underwriting discounts and commissions) expected to be incurred in connection with the issuance and distribution of the securities registered hereby, all of which expenses, except for the Commission registration fee are estimated:

Securities and Exchange Commission registration fee.....	\$ 865
Legal fees and expenses	10,000
Accounting fees	3,000
Miscellaneous.....	500

Total.....	\$ 14,365
	=====

The above expenses will be borne by us.

ITEM 15. INDEMNIFICATION OF OFFICERS AND DIRECTORS

The Colorado Business Corporation Act provides that a corporation may indemnify a person made a party to a proceeding because the person is or was a director against liability incurred in the proceeding if (a) the person conducted himself or herself in good faith, (b) the person reasonably believed (1) in the case of conduct in an official capacity with the corporation, that his or her conduct was in the corporation's best interests; and (2) in all other cases, that his or her conduct was at least not opposed to the corporation's best interests and (c) in the case of any criminal proceeding, the person had no reasonable cause to believe his or her conduct was unlawful. Such indemnification is permitted in connection with a proceeding by or in the right of the corporation only to the extent of reasonable expenses incurred in connection with the proceeding. A corporation may not indemnify a director (a) in connection with a proceeding by or in the right of the corporation in which the director was adjudged liable to the corporation; or (b) in connection with any other proceeding charging that the director derived an improper personal benefit, whether or not involving action in an official capacity, in which proceeding the director was adjudged liable on the basis that he or she derived an improper personal benefit. The Colorado Business Corporation Act further provides that a corporation, unless limited by its articles of incorporation, shall indemnify a person who was wholly successful, on the merits or otherwise, in the defense of any proceeding to which the person was a party because the

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person is or was a director or officer, against reasonable expenses incurred by him or her in connection with the proceeding.

Our amended and restated articles of incorporation contain a provision that requires us to indemnify, to the fullest extent permitted under law, directors and officers against all costs and expenses reasonably incurred in connection with the defense of any claim, action, suit or proceeding, whether civil, criminal, administrative, investigative or other, in which such person may be involved by virtue of being or having been a director, officer or employee. Insofar as indemnification for liabilities arising under the Securities Act of 1933, as amended (the "Act"), may be permitted to directors, officers and controlling persons of Simtek pursuant to the foregoing provisions, or otherwise, Simtek 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.

ITEM 16. EXHIBITS

All exhibits listed below are incorporated herein by reference.

-
- 3.1 Amended and Restated Articles of Incorporation.(25)
 - 3.2 Bylaws.(2)
 - 4.1 1987-I Employee Restricted Stock Plan.(1)
 - 4.2 Form of Restricted Stock Agreement between the Company and Participating Employees.(1)
 - 4.3 Form of Common Stock Certificate.(3)
 -
 - 4.4 Simtek Corporation 1991 Stock Option Plan.(4)
 - 4.5 Form of Incentive Stock Option Agreement between the Company and Eligible Employees.(4)
 - 4.6 1994 Non-Qualified Stock Option Plan.(5)
 - 4.7 Amendment to the 1994 Non-Qualified Stock Option Plan.(6)
 - 4.8 Q-DOT Group, Inc. Incentive Stock Option Plan of March 1994 adopted by Simtek (15)
 - 4.9 Form of Q-DOT Group, Inc. Incentive Stock Option Agreement between the Company and Eligible Employees.(15)
 - 4.10 Amendment to the 1994 Non-Qualified Stock Option Plan.(15)
 - 4.11 Amendment to the 1994 Non-Qualified Stock Option Plan (23)
 - 5.1 Opinion of Holme Roberts & Owen LLP 10.1 Form of Non-Competition and Non-Solicitation Agreement between the Company and certain of its employees.(1)
 - 10.2 Form of Employee Invention and Patent Agreement between the Company and certain of its employees.(1)
 - 10.3 Product License Development and Support Agreement between Simtek Corporation and Zentrum Mikroelektronik Dresden GmbH dated June 1, 1994(5)
 - 10.4 Cooperation Agreement between Simtek Corporation and Zentrum Mikroelektronik Dresden GmbH dated September 14, 1995(6)
 - 10.5 Manufacturing Agreement between Chartered Semiconductor Manufacturing, PTE, LTD. and Simtek Corporation dated September 16, 1992(6)
 - 10.6 Separation Agreement, dated May 9, 2005, between Simtek Corporation and Douglas M. Mitchell(8)
 - 10.7 Share Exchange Agreement dated May 9, 2000 between Simtek Corporation and Hugh N. Chapman (9)

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- 10.8 Share Exchange Agreement dated June 16, 2000 between Simtek Corporation and WebGear Inc. (9)
- 10.9 Share Exchange Agreement dated July 31, 2000 between Simtek Corporation and Jaskarn Johal and Kashmira S. Johal (10)
- 10.10 Asset Purchase Agreement between Simtek Corporation and WebGear, Inc. (11)
- 10.11 Amendment to Asset Purchase Agreement between Simtek Corporation and WebGear, Inc. (12)
- 10.12 Agreement and Plan of Merger among Simtek Corporation, W-DOT Group, Inc. and Q-DOT, Inc. (13)
- 10.13 Employment Agreement between Simtek Corporation and Hugh N. Chapman (14)
- 10.14 Technology Development, License and Product Agreement between Amkor Technology and Simtek (16)
- 10.15 Manufacturing Services Agreement between Amkor Technology, Inc. and Simtek Corp (16)
- 10.16 Convertible Loan Agreement between Simtek Corporation as borrower and Renaissance Capital Growth & Income Fund III, Inc. and Renaissance US Growth and Income Trust, PLC and BFSUS Special Opportunities Trust, PLC as lenders (17)
- 10.17 7.5% \$1,000,000 Convertible Debenture between Simtek Corporation and BSFSUS Special Opportunities Trust, PLC (17)
- 10.18 7.5% \$1,000,000 Convertible Debenture between Simtek Corporation and Renaissance Capital Growth & Income Fund III, Inc. (17)
- 10.19 7.5% \$1,000,000 Convertible Debenture between Simtek Corporation and Renaissance Capital US Growth & Income Trust, PLC (17)
- 10.20 Borrowers Security Agreement between Simtek Corporation as borrower and Renaissance Capital Growth & Income Fund III, Inc. and Renaissance US Growth and Income Trust, PLC and BFSUS Special Opportunities Trust, PLC as lenders (17)
- 10.21 Pledge Agreement between Simtek Corporation as borrower and Renaissance Capital Growth & Income Fund III, Inc. and Renaissance US Growth and Income Trust, PLC and BFSUS Special Opportunities Trust, PLC as lenders (17)
- 10.22 Technology Development, License and Product Agreement between Amkor Technology and Simtek - Amended September 2002 (18)
- 10.23 Assignment, dated February 21, 2003, of the Agreement(s) between Simtek Corporation and Amkor Technology, Inc.(19)
- 10.24 Securities Purchase Agreement between Simtek Corporation and Renaissance Capital Growth & Income Fund III, Inc. and Renaissance US Growth and Investment Trust, PLC and BFSUS Special Opportunities Trust, PLC(20)

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- 10.25 Form of \$1.25 Stock Purchase Warrant(20)
- 10.26 Form of \$1.50 Stock Purchase Warrant(20)
- 10.27 Amendment dated January 27, 2004 between Simtek Corporation and Baja Properties, LLC (Landlord) (together with amendment dated June 7, 2000 and underlying lease dated July 26, 2000) (21)
- 10.28 Securities Purchase Agreement, dated October 12, 2004, by and among the Company, SF Capital Partners Ltd., Bluegrass Growth Fund LP and Bluegrass Growth Fund LTD (22)
- 10.29 Form of Warrant (attached as Exhibit A to Securities Purchase Agreement, dated October 12, 2004, by and among the Company, SF Capital Partners Ltd., Bluegrass Growth Fund LP and Bluegrass Growth Fund LTD) (22)
- 10.30 Form of Registration Rights Agreement (attached as Exhibit B to Securities Purchase Agreement, dated October 12, 2004, by and among

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- the Company, SF Capital Partners Ltd., Bluegrass Growth Fund LP and Bluegrass Growth Fund LTD) (22)
- 10.31 Share Purchase Agreement, dated May 4, 2005, by and between the Company and Cypress Semiconductor Corporation (26)
- 10.32 Development and Production Agreement, dated May 4, 2005, by and between the Company and Cypress Semiconductor Corporation (26)
- 10.33 Escrow Agreement, dated May 4, 2005, by and among the Company, Cypress Semiconductor Corporation and U.S. Bank, National Association (26)
- 10.34 Stock Purchase Warrant, dated May 4, 2005, from the Company to Cypress Semiconductor Corporation (26)
- 10.35 Registration Rights Agreement, dated May 4, 2005, by and between the Company and Cypress Semiconductor Corporation (26)
- 10.37 Employment agreement by and between the Company and Harold Blomquist (8)
- 13.1 Annual Report on Form 10-KSB for the fiscal year ended December 31, 2004 (24)
- 23.1 Consent of Independent Registered Public Accounting Firm
- 23.2 Consent of Holme Roberts & Owen LLP is included in Exhibit 5.1
- 24.1 Power of Attorney

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- (1) Incorporated by reference to the Company's Form S-1 Registration Statement (Reg. No. 33-37874) filed with the Commission on November 19, 1990.
 - (2) Incorporated by reference to the Company's Amendment No. 1 to Form S-1 Registration Statement (Reg. No. 33-37874) filed with the Commission on February 4, 1991.
 - (3) Incorporated by reference to the Company's Amendment No. 2 to Form S-1 Registration Statement (Reg. No. 33-37874) filed with the Commission on March 4, 1991.
 - (4) Incorporated by reference to the Company's Form S-1 Registration Statement (Reg. No. 33-46225) filed with the Commission on March 6, 1992.
 - (5) Incorporated by reference to the Company's Annual Report on Form 10-K filed with the Commission on March 25, 1995
 - (6) Incorporated by reference to the Company's Annual Report on Form 10-K filed with the Commission on March 27, 1996
 - (7) Incorporated by reference to the Company's Annual Report on Form 10-K filed with the Commission on March 24, 1998
 - (8) Incorporated by reference to the Form 8-K filed with the Commission on May 12, 2005
 - (9) Incorporated by reference to the Form SB-2 Registration Statement (Reg. No. 333-40988) filed with the Commission on July 7, 2000
 - (10) Incorporated by reference to the Form 8-K filed with the Commission on August 14, 2000
 - (11) Incorporated by reference to the Form 8-K filed with the Commission on October 13, 2000
 - (12) Incorporated by reference to the Company's Amendment No. 2 to Form SB-2 Registration Statement (Reg. No. 333-40988)
 - (13) Incorporated by reference to the Company's Form 8-K filed with the March 23, 2001
 - (14) Incorporated by reference to the Form SB-2 Registration Statement Amendment #3 (Reg. No. 333-60492) filed with the Commission on September 4, 2001
 - (15) Incorporated by reference to the Company's Form S-8 Registration Statement (Reg. No. 333-73794) filed with the Commission on November 20, 2001

- (16) Incorporated by reference to the Company's Annual Report on Form 10-KSB filed with the Commission on March 27, 2002

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- (17) Incorporated by reference to the Company's Quarterly Report on Form 10-QSB filed with the Commission on August 13, 2002
- (18) Incorporated by reference to the Company's Quarterly Report on Form 10-QSB filed with the Commission on November 8, 2002
- (19) Incorporated by reference to the Company's Annual Report on Form 10-KSB filed with the Commission on March 27, 2003
- (20) Incorporated by reference from the Current Report on Form 8-K filed by the Company with the SEC on November 12, 2003
- (21) Incorporated by reference to the Company's Annual Report on Form 10-KSB filed with the Commission on March 4, 2004
- (22) Incorporated by reference from the Current Report on Form 8-K filed by the Company with the Commission on October 12, 2004
- (23) Incorporated by reference to the Company's Form S-8 Registration Statement (Reg. No. 333-1210005) filed with the Commission on December 7, 2004
- (24) Incorporated by reference to the Company's Annual Report on Form 10-KSB filed with the Commission on March 17, 2005 as amended by the Company's Amended Annual Report on Form 10-KSB filed with the Commission on May 11, 2005
- (25) Incorporated by reference to the Company's Form S-2 Registration Statement (Reg. No. 333-123639) filed with the Commission on March 29, 2005
- (26) Incorporated by reference to the Company's Current Report on Form 8-K filed by the Company with the SEC on May 10, 2005

ITEM 17. UNDERTAKINGS

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 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 Securities Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes to:

- (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 in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value 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) (17 C.F.R. ss. 230.424(b)) if, in the aggregate, the changes in volume and price represent no more than

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a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement

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- (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.
- (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.

The undersigned registrant hereby undertakes to, for determining any liability under the Securities Act, treat each post-effective amendment that contains a form of prospectus as a new registration statement for the securities offered in the registration statement, and that offering of the securities at that time as the initial bona fide offering of those securities.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-2 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Colorado Springs, State of Colorado, on June 22, 2005.

Simtek Corporation,
a Colorado corporation

By: /s/Harold Blomquist

Harold Blomquist
Chief Executive Officer and
President

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

SIGNATURE

/s/ Harold Blomquist

Harold Blomquist, Chairman,
Chief Executive Officer and President
June 22, 2005

/s/ Brian Alleman

Brian Alleman, Vice President and Chief Financial Officer
June 22, 2005

* /s/ Robert Keeley

Robert Keeley, Director
June 22, 2005

* /s/ Alfred Stein

Alfred Stein, Director
June 22, 2005

* /s/ Ronald Sartore

Ronald Sartore, Director
June 22, 2005

/s/Kimberley Carothers

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Kimberley Carothers
Controller (Principal Accounting Officer)
June 22, 2005

* By /s/Harold Blomquist, Attorney in Fact