

HARRIS & HARRIS GROUP INC /NY/  
Form 40-APP/A  
May 28, 2010

No. 812-13768

U.S. SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

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AMENDMENT NO. 1 TO THE APPLICATION FOR A CERTIFICATION PURSUANT TO SECTION 851(e) OF  
THE  
INTERNAL REVENUE CODE OF 1986, AS AMENDED.\*

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HARRIS & HARRIS GROUP, INC.

1450 Broadway  
24th Floor  
New York, NY 10018

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1450 Broadway  
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May 28, 2010

\* This amendment does not differ in content from the original application filed on April 23, 2010, with the exception of the addition of the SEC file number, date changes and reference to this filing as an amendment.

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UNITED STATES OF AMERICA  
BEFORE THE  
SECURITIES AND EXCHANGE COMMISSION

In the Matter of:

Harris & Harris Group, Inc.

1450 Broadway  
24th Floor  
New York, NY 10018

AMENDMENT NO. 1 TO THE  
APPLICATION FOR A CERTIFICATION  
PURSUANT TO SECTION 851(e) OF THE  
INTERNAL REVENUE CODE OF 1986, AS  
AMENDED.

INTRODUCTION

Harris & Harris Group, Inc. (“Applicant”) hereby applies to the Securities and Exchange Commission (the “Commission”), pursuant to Section 851(e) of the Internal Revenue Code of 1986, as amended (the “Code”), for a certification that Applicant is principally engaged in the furnishing of capital to other corporations which are principally engaged in the development or exploitation of inventions, technological improvements, new processes, or products not previously generally available.

Applicant proposes to qualify as a “regulated investment company” under Section 851(a) of the Code for the fiscal year ended December 31, 2009. The certification being sought is a prerequisite to qualification, pursuant to the provisions of Section 851(e) of the Code, as a regulated investment company under Section 851(a).

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I. GENERAL DESCRIPTION OF APPLICANT

Applicant was incorporated under the laws of the State of New York in August 1981 and operates as an internally managed business development company. Applicant's securities were first registered with the Commission pursuant to Section 12 of the Securities Exchange Act of 1934, as amended, in 1982. In 1992, Applicant registered with the Commission as a closed-end, non-diversified management investment company under the Investment Company Act of 1940, as amended (the "1940 Act"). On July 26, 1995, Applicant elected to become regulated as a business development company ("BDC") pursuant to Section 54(a) of the 1940 Act (the "BDC election").

Applicant's investment portfolio consists primarily of equity investments in companies that are principally engaged in the development, commercialization and integration of products enabled by nanotechnology and microsystems that are applied in industries such as computer software and hardware, telecommunications, medical devices, pharmaceuticals, biotechnology, electronics, semiconductors and advanced materials. Many of Applicant's portfolio companies are privately held, thinly capitalized, unproven companies with no operating history. As of December 31, 2009, Applicant had total assets of approximately \$136.1 million.

The Commission has previously issued certifications pursuant to Section 851(e) of the Code that Applicant was, for the fiscal years ended December 31, 1997 and December 31, 1999 through December 31, 2008, principally engaged in the furnishing of capital to other corporations, which are principally engaged in the development or exploitation of inventions, technological improvements, new processes, or products not previously generally available.<sup>1</sup>

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<sup>1</sup> Harris & Harris Group, Inc., Investment Company Act Release Nos. 28761 (June 9, 2009); 28294 (May 30, 2008); 27870 (June 20, 2007); 27398 (June 16, 2006); 26908 (June 15, 2005); 26467 (June 15, 2004); 25990 (Apr. 2, 2003); 25454 (Mar. 7, 2002); 24888 (Mar. 8, 2001); 24314 (Feb. 24, 2000); 23102 (Apr. 6, 1998).

## II. LEGAL ANALYSIS

### A. Applicable Law

Section 851 of the Code sets forth the general requirements a corporation must satisfy in order to qualify for treatment as a regulated investment company under Subchapter M of the Code (a “RIC”). A RIC is defined in Section 851(a) as “any domestic corporation . . . which, at all times during the taxable year . . . is registered under the . . . [1940 Act] as a management company or unit investment trust or . . . has in effect an election under such Act to be treated as a business development company.” Section 851 also imposes certain conditions and limitations upon entities seeking to qualify as RICs. Section 851(b)(3)(A) provides that an investment company or BDC seeking to qualify for treatment as a RIC must, as of the close of each quarter of the taxable year, have at least 50 percent of the value of its total assets represented by

cash and cash items (including receivables), Government securities and securities of other regulated investment companies, and . . . other securities for purposes of this calculation limited, except and to the extent provided in subsection [851](e), in respect of any one issuer to an amount not greater in value than 5 percent of the value of the total assets of the taxpayer and to not more than 10 percent of the outstanding voting securities of such issuer . . . .

The 1940 Act generally imposes no similar diversification requirements.

Section 851(e) provides an exemption from the diversification requirements of Subchapter M for certain investment companies furnishing capital to certain development corporations. In pertinent part, Section 851(e) provides that

[i]f the . . . Commission determines, in accordance with regulations issued by it, and certifies to the Secretary not earlier than 60 days prior to the close of the taxable year of a management company or a business development company . . . that such investment company is principally engaged in the furnishing of capital to other corporations which are principally engaged in the development or exploitation of inventions, technological developments, new processes, or products not previously generally available, such investment company may, in the computation of 50 percent of the value of its assets under subparagraph (A) of subsection (b)(3) for any quarter of such taxable year, include the value of any securities of an issuer, whether or not the investment company owns more than 10 percent of the outstanding voting securities of such issuer, the basis of which, when added to the basis of the investment company for securities of such issuer previously acquired, did not exceed 5 percent of the value of the total assets of the investment company at the time of the subsequent acquisition of securities.

**B. Need for Relief**

Applicant's board of directors has determined that it would be in the best interests of Applicant and its shareholders for Applicant to qualify for treatment as a RIC for the fiscal year ended December 31, 2009. Since its BDC election, Applicant has invested a substantial percentage of its total assets in early-stage development, or start-up, companies (the portfolio companies are more fully described below) in a broad range of industry segments that are primarily engaged in the development, commercialization and integration of products enabled by nanotechnology and microsystems that are applied in industries such as computer software and hardware, telecommunications, medical devices, pharmaceuticals, biotechnology, electronics, semiconductors and advanced materials (each a "Portfolio Company" and together the "Portfolio Companies"). Given the inherent nature of start-up and early-stage development companies, many of the Portfolio Companies are thinly capitalized, unproven companies that lack management depth and have no operating history. As a consequence, Applicant, in addition to providing capital to the Portfolio Companies, may also assist with the development of financial plans for the companies, recruiting and hiring management, as well as providing management expertise. Given Applicant's level of involvement in many of the Portfolio Companies, Applicant may, from time to time, own a majority of the equity securities of a given Portfolio Company. Thus, without the relief requested, Applicant may be unable to satisfy the requirements of Section 851(b)(3)(A). This result would have a deleterious impact on Applicant's shareholders by reducing Applicant's income without achieving any concomitant policy objective.

1. Investment Portfolio

As stated above, Applicant has invested a substantial portion of its assets in early stage companies primarily engaged in the development, commercialization and integration of products enabled by nanotechnology and microsystems that are applied in industries such as computer software and hardware, telecommunications, medical devices, pharmaceuticals, biotechnology, electronics, semiconductors and advanced materials. Applicant believes that most of those companies satisfy the requirements of section 851(e) of the Code. In reaching this conclusion, the Applicant generally has relied upon information provided by the Portfolio Companies themselves and others, including but not limited to, offering circulars, prospectuses, analyst reports, internal company memoranda, patent applications and similar documents. In addition, Applicant generally is represented on the boards of directors of the Portfolio Companies through member or observer status and also has direct access to senior management of those companies through contractual information rights.

The following table shows the composition of Applicant's total assets as of the end of each calendar quarter of 2009:

	3/31/2009	6/30/2009	9/30/2009	12/31/2009
A. Investments in "eligible portfolio companies" described in Section 2(a)(46) of the 1940 Act and believed by the Applicant to be engaged in the business activities required by Section 851(e) of the Code	\$ 56,021,868	\$ 60,943,801	\$ 66,639,006	\$ 75,316,751
B. Investments in "eligible portfolio companies" described in Section 2(a)(46) of the 1940 Act and treated by Applicant as not engaged in the business activities required by Section 851(e) of the Code*	\$ 1,853	0	0	0
C. Investments that do not qualify under Section 55(a) of the 1940 Act, but as to which the issuers are believed by Applicant to be engaged in the business activities required by Section 851(e) of the Code**	\$ 2,769,967	\$ 3,016,010	\$ 3,410,609	\$ 2,706,730
D. Investments that do not qualify under Section 55(a) of the 1940 Act and treated by Applicant as not covered by Section 851(e) of the Code	-	-	-	-
E. Cash, cash items and securities as set forth in Section 55(a)(6) of the 1940 Act, collectively "Cash Equivalents"	\$ 51,582,213	\$ 47,666,894	\$ 68,467,410	\$ 57,559,046
Total Investments and Cash Equivalents	\$ 110,375,901	\$ 111,626,705	\$ 138,517,025	\$ 135,582,527
Other Assets	\$ 834,237	\$ 729,142	\$ 619,408	\$ 526,574
Total Assets	\$ 111,210,138	\$ 112,355,847	\$ 139,136,433	\$ 136,109,101

\* As of March 31, 2009, the sole investment in this category was Exponential Business Development Company.

\*\* As of December 31, 2009, the investments in this category were D-Wave Systems Inc., and Orthovita, Inc.



As demonstrated above, as of December 31, 2009, 97.6% of Applicant's total assets consisted of assets of the type set forth in paragraphs 1 through 6 of Section 55(a) of the 1940 Act. Such assets comprise 98.0% of Applicant's invested assets.

## 2. Portfolio Companies

As reflected in the table above, companies engaged in the type and degree of business activities described in Section 851(e) of the Code, excluding the investments in issuers described in Categories B. and D. above, ("Development Companies") comprised the following percentages of the total assets less Cash Equivalents of Applicant at the end of each of the calendar quarters of 2009: March 31, 98.6%; June 30, 98.9%; September 30, 99.1%; and December 31, 99.3%. The Development Companies are discussed below. Unless otherwise indicated below, information is provided as of December 31, 2009.

Adesto Technologies Corporation ("Adesto")(Category A) -- Adesto develops semiconductor-related products enabled at the nanoscale. The company's technology addresses several problems that limit the capabilities of certain traditional electronic components, including the ability to scale the devices as standard chip dimensions shrink, the ability to increase speed of operation and the ability to decrease power consumption.

Percentage of Equity held by Applicant<sup>2</sup> -- 14.6%

Investment Value/Percentage of Applicant's Total Assets -- \$4,620,000 / 3.4%

Date of Initial Investment -- February 20, 2007

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<sup>2</sup> Percentage of Equity for all portfolio companies held by Applicant is reported on voting equity basis.

Ancora Pharmaceuticals Inc. (“Ancora”)(Category A) -- Ancora develops synthetic carbohydrates for pharmaceutical markets and for internal drug development programs. Ancora’s scalable technology enables rapid milligram to kilogram production of synthetic carbohydrates for use in drug discovery and industrial applications.

Percentage of Equity held by Applicant – 95.2%

Investment Value/Percentage of Applicant’s Total Assets -- \$1,257,006 / less than 1%

Date of Initial Investment -- May 3, 2007

BioVex Group Inc. (“BioVex”)(Category A) -- BioVex develops novel biologics for treatment of cancer and infectious diseases. BioVex is a Phase III clinical-stage company built on oncolytic virus technology that replicates and spreads within solid tumors, causing the death of cancer cells, accompanied by the induction of a systemic immune response.

Percentage of Equity held by Applicant – 2.4%

Investment Value/Percentage of Applicant’s Total Assets -- \$1,691,683 / 1.24%

Date of Initial Investment -- September 27, 2007

BridgeLux, Inc. (“BridgeLux”)(Category A) -- BridgeLux develops chips for high-power, indium gallium nitride light emitting diodes and arrays that are used in various solid-state lighting applications. BridgeLux technology permits a highly reliable epitaxy structure and a robust chip and array design that are necessary for the requirement of long lumen maintenance under severe operating conditions such as high current density and high thermal stress that adversely affect most high-power devices.

Percentage of Equity held by Applicant – 5.4%

Investment Value /Percentage of Applicant’s Total Assets -- \$4,833,209 / 3.6%

Date of Initial Investment -- May 20, 2005

Cambrios Technology Corp. (“Cambrios”)(Category A) -- Cambrios develops materials that can be deposited from solution onto any substrate to create flexible, transparent conductive surfaces. Metallic nanowires are used as the conductive medium because they minimize the absorption and scattering of visible light.

Percentage of Equity held by Applicant – 5.7%

Investment Value/Percentage of Applicant’s Total Assets -- \$1,554,891 / 1.14%

Date of Initial Investment -- November 9, 2004

CFX Battery, Inc. (“CFX”)(Category A) – CFX, formerly Lifco, Inc., is developing primary and rechargeable batteries using a novel variation of existing battery chemistry that is enabled by nanotechnology. The company hopes to use its proprietary nanotechnology to deliver low-cost batteries with superior performance, safety and weight. On February 28, 2008, Lifco merged with CFX Battery, Inc., to form CFX Battery, Inc.

Percentage of Equity held by Applicant – 10.64%

Investment Value/Percentage of Applicant’s Total Assets -- \$4,122,378 / 3.0%

Date of Initial Investment -- June 21, 2007

Cobalt Technologies, Inc. ("Cobalt") (Category A) -- Cobalt is developing biobutanol, a next-generation biofuel. Cobalt's proprietary technologies in microbial physiology, strain development, fermentation and low-energy fuel separation enable it to produce a new generation of fuels that burn cleaner, are more cost-effective, and enhance environmental sustainability. By optimizing productivity, titer and yield, it is seeking to make biobutanol an affordable gasoline substitute that can meet the immediate needs of the transportation industry.

Percentage of Equity held by Applicant – 1.7%

Investment Value /Percentage of Applicant's Total Assets -- \$375,000 / less than 1%

Date of Initial Investment -- October 7, 2008

Crystal IS, Inc. ("Crystal IS")(Category A) -- Crystal IS is commercializing patented technology for the cost-effective production of high-power, high-temperature, and compound semiconductor devices on aluminum nitride substrates. The nitride semiconductor industry provides devices that are used in water purification, stoplights, high storage capacity DVDs, military applications, biotechnology, information technology, wireless communication, lighting, and high-power microwave devices.

Percentage of Equity held by Applicant – 18.7%

Investment Value /Percentage of Applicant's Total Assets -- \$0 / 0%

Date of Initial Investment -- September 21, 2004

D-Wave Systems, Inc. (“D-Wave”)(Category C) -- D-Wave develops high-performance quantum computing systems for commercial use in logistics, bioinformatics, life and physical sciences, quantitative finance and electronic design automation.

Percentage of Equity held by Applicant -- 3.1%

Investment Value /Percentage of Applicant’s Total Assets -- \$2,480,335 / 1.8%

Date of Initial Investment -- April 19, 2006

Ensemble Discovery Corporation (“Ensemble”)(Category A) -- Ensemble develops DNA Programmed Chemistry (“DPC”) for the discovery of new classes of therapeutics. DPC provides unprecedented control of chemical reactivity, enabling the synthesis of diverse libraries of compounds for use in drug discovery.

Percentage of Equity held by Applicant -- 5.34%

Investment Value/Percentage of Applicant’s Total Assets -- \$1,825,506 / 1.34%

Date of Initial Investment -- June 6, 2007

Enumeral Technologies, Inc. (“Enumeral”)(Category A) – Enumeral develops high-value opportunities in immunology including therapeutic discovery, immune profiling and personalized medicine. The company's proprietary technology enables the isolation and study of chemicals and proteins produced by individual cells simultaneously in a highly parallel format.

Percentage of Equity held by Applicant -- 0%

Investment Value/Percentage of Applicant’s Total Assets -- \$250,438 / less than 1%

Date of Initial Investment -- December 23, 2009

Innovalight, Inc. (“Innovalight”)(Category A) -- Innovalight develops renewable energy products based on silicon nanotechnology. The silicon nanoparticles are synthesized using a single-step, continuous-flow, scaleable, non-thermal plasma process. The resulting stable and non-reactive nanoparticles permit tunable light absorption and emission and an increase in the quantum efficiencies of solar devices.

Percentage of Equity held by Applicant – 9.1%

Investment Value /Percentage of Applicant’s Total Assets -- \$4,967,214 / 3.6%

Date of Initial Investment -- April 20, 2006

Kovio, Inc. (“Kovio”)(Category A) -- Kovio is developing a new category of semiconductor products using printed electronics and thin-film technologies. Printed electronics enable fabrication of semiconductor devices over large areas, on flexible substrates, and at a fraction of the cost of conventional silicon technology. The initial target application is the production of ultra-low cost RFID tags for the retail industry, transit tickets, library inventory control, asset management, manufacturing, and logistics.

Percentage of Equity held by Applicant -- 6.2%

Investment Value /Percentage of Applicant’s Total Assets -- \$2,596,591 / 1.9%

Date of Initial Investment -- November 4, 2005

Laser Light Engines, Inc. (“LLE”) (Category A) -- LLE seeks to design and manufacture ultra-high-brightness, solid-state light sources for digital cinema and large-venue projection displays. LLE uniquely combines laser technology, non-linear optics, specialty optical fiber, digital control and applications knowledge to produce its laser-driven light engines.

Percentage of Equity held by Applicant -- 26.8%

Investment Value /Percentage of Applicant’s Total Assets -- \$2,434,116 / 1.8%

Date of Initial Investment -- May 6, 2008

Mersana Therapeutics, Inc. (“Mersana”)(Category A) -- Mersana is a pharmaceutical company developing cancer therapeutics using an advanced drug delivery system. Mersana uses fully biodegradable, nanoscopic drug delivery vehicles based on proprietary molecular constructs and “biological stealth” materials. Mersana is a Phase I clinical-stage company.

Percentage of Equity held by Applicant -- 8.5%

Investment Value /Percentage of Applicant’s Total Assets -- \$1,659,334 / 1.2%

Date of Initial Investment -- February 12, 2002

Metabolon, Inc. (“Metabolon”)(Category A) -- Metabolon uses a proprietary technology platform in metabolomics to map changes in metabolic pathways for the identification of biomarkers and the early diagnosis of disease states. Metabolomics is the study of the repertoire of non-proteinaceous, endogenously-synthesized small molecules present in an organism. Metabolon's platform uses mass-spectrometry based technologies, data integration and propriety software.

Percentage of Equity held by Applicant -- 15.2%

Investment Value /Percentage of Applicant's Total Assets -- \$2,559,778 / 1.9%

Date of Initial Investment -- January 11, 2006

Molecular Imprints, Inc. ("Molecular")(Category A) -- Molecular develops and manufactures nanoimprint-based lithography technology and systems for manufacturing nano scale features useful in hard disk drives, optical components and semiconductor devices.

Percentage of Equity held by Applicant -- 3.9%

Investment Value /Percentage of Applicant's Total Assets -- \$5,976,124 / 4.4%

Date of Initial Investment -- March 31, 2004

Nanogram Corporation ("Nanogram")(Category A) -- Nanogram uses its laser pyrolysis process technology to synthesize high-quality silicon nanoparticles. The company plans to use this technology to make high-efficiency, thin-film solar cells. Nanogram is a spin-off of NeoPhotonics Corporation.

Percentage of Equity held by Applicant -- 5.7%

Investment Value /Percentage of Applicant's Total Assets -- \$0 / 0%

Date of Initial Investment -- April 30, 2003

Nanosys, Inc. ("Nanosys")(Category A) -- Nanosys develops novel and patent-protected nanostructures that integrate functional complexity directly into each individual nanostructure. This capability enables the low-cost fabrication of revolutionary high-value, high-performance applications in a broad range of industries including life sciences, physical sciences, information technology, communications, renewable energy and homeland security. The initial applications include color filters for light emitting diodes, medical devices and materials for lithium-ion batteries.



Percentage of Equity held by Applicant -- 2.84%

Investment Value /Percentage of Applicant's Total Assets -- \$2,685,057 / 2.0%

Date of Initial Investment -- April 7, 2003

Nantero, Inc. ("Nantero")(Category A) -- Nantero is currently developing NRAMTM -- a high-density nonvolatile random access memory chip using patented nanotechnology. The NRAMTM design uses carbon nanotubes as the active memory elements, and Nantero is developing a straightforward way to manufacture the memory chip and integrate it with standard semiconductor processes. Potential applications for Nantero's non-volatile memory include instant-on computers, radiation-hardened memory and memory used in devices such as MP3 players, digital cameras, and PDAs.

Percentage of Equity held by Applicant -- 3.5%

Investment Value /Percentage of Applicant's Total Assets -- \$2,246,409 / 1.7%

Date of Initial Investment -- August 10, 2001

NeoPhotonics Corporation (“NEO”) (Category A) -- NEO uses its patented nanomaterials deposition technology to enable the true integration of planar optical components, by developing and manufacturing planar optical devices and components for the leading optical component manufacturers. The company, a recognized leader in nanomaterials synthesis processes, has developed commercial production systems for planar deposition and optical materials integration. Its Laser Reactive Deposition (LRD™) technology is the only commercial manufacturing process capable of producing the full complement of active and passive glass materials used to produce optical amplifiers, waveguide lasers, and passive planar waveguides.

Percentage of Equity held by Applicant -- 2.8%

Investment Value /Percentage of Applicant’s Total Assets -- \$5,765,042 / 4.24%

Date of Initial Investment -- December 5, 2003

Nextreme Thermal Solutions, Inc. (“Nextreme”) (Category A) -- Nextreme aims to be a high-volume manufacturer of high-performance, thin-film, thermoelectric (“TE”) devices for both discrete and integrated cooling and power generation applications. A thermoelectric module is a semiconductor-based electronic component that functions as a small, solid-state heat pump. This cooling capability is ideally suited for applications where temperature stabilization, temperature cycling, or cooling below ambient temperatures are required. Applications of TE modules include cooling of microprocessors, power semiconductors, medical devices and optical communications devices as well as power generation by scavenging of waste heat.

Percentage of Equity held by Applicant -- 13.8%

Investment Value /Percentage of Applicant’s Total Assets -- \$4,405,257 / 3.24%

Date of Initial Investment -- December 7, 2004

Orthovita, Inc. (“Orthovita”)(Category C) – Orthovita develops materials and devices for orthopedic medical implant applications. Orthovita’s fusion and regeneration product, Vitoss™ Bone Graft Substitute technology, addresses the non-structural bone grafting market with synthetic, bioactive alternatives to patient- and cadaver-derived bone tissue. Its Cortoss™ Bone Augmentation Material is an injectable polymer composite that mimics the structural characteristics of human bone.

Percentage of Equity held by Applicant – less than 1%

Investment Value /Percentage of Applicant’s Total Assets -- \$226,395 / less than 1%

Date of Initial Investment – August 7, 2009

Polatis, Inc. (“Polatis”) (Category A) -- Polatis focuses on delivering tunable, low-cost photonic switch subsystems for the instrumentation and test market. These subsystems are enabled by the DirectLight platform, which is a proprietary, beam-steering methodology using solid-state mechanics for precision tuning of optics. Unique to DirectLight is the ability to provide highly integrated optical functions, including monitoring and attenuation. The focus of its product line is a series of non-blocking, fully transparent switches agnostic to both bit-rate and protocol.

Percentage of Equity held by Applicant -- 1.4%

Investment Value /Percentage of Applicant’s Total Assets -- \$0 / 0%

Date of Initial Investment -- June 24, 2002

PolyRemedy, Inc. (“PolyRemedy”) (Category A) -- PolyRemedy manufactures robotic systems for the fabrication of nano and micro-fiber wound treatments. PolyRemedy's system produces customized wound dressings within minutes, measured to fit the wound size and shape and fabricated with the precise material composition necessary to optimally treat the wound at its exact stage of healing and throughout the healing process. The system is also designed to enable the capture and monitoring of wound treatment data with the potential to help evaluate costs, refine clinical protocols and demonstrate evidence-based improvements in wound management.

Percentage of Equity held by Applicant – 1.3%

Investment Value /Percentage of Applicant’s Total Assets -- \$107,786 / less than 1%

Date of Initial Investment -- February 8, 2008

Questech Corporation (“Questech”)(Category A) -- Questech has patented a light-weight, low-cost, premium metal composite material consisting of a metal face, a polymer core and a ceramic back. Questech manufactures and markets this material as architectural tile and trim for the commercial and residential architecture markets. The company holds several U.S. patents and a Canadian patent for a product and process technology. Questech has also developed extensive trade secrets associated with its manufacturing process.

Percentage of Equity held by Applicant -- 7.5%

Investment Value /Percentage of Applicant’s Total Assets -- \$425,390 / less than 1%

Date of Initial Investment -- May 26, 1994

Siluria Technologies, Inc. ("Siluria")(Category A) -- Siluria develops next-generation nanomaterials using technology spun out of a leading academic institution. This technology provides for unique control over the structural properties and spatial arrangement of a variety of types of nanomaterials. This control enables the production of new classes of catalysts, optical and electronic products.

Percentage of Equity held by Applicant -- 3.5%

Investment Value /Percentage of Applicant's Total Assets -- \$204,000 / less than 1%

Date of Initial Investment -- October 17, 2007

SiOnyx, Inc. ("SiOnyx")(Category A) -- SiOnyx develops silicon-based optoelectronic products enabled by its proprietary "Black Silicon." Black silicon is the result of the interaction of a femtosecond laser pulse with silicon in the presence of sulfur hexafluoride. Black silicon has high absorptive properties to visible wavelengths and also absorbs in the infrared, enabling its use in photodetectors, imaging arrays and potentially high-efficiency solar cells.

Percentage of Equity held by Applicant -- 25.6%

Investment Value /Percentage of Applicant's Total Assets -- \$2,152,308 / 1.6%

Date of Initial Investment -- May 12, 2006

Solazyme, Inc. ("Solazyme")(Category A) -- Solazyme is a biotechnology company devoted to harnessing the energy-harvesting machinery of algae to produce valuable products. The company utilizes proprietary genetic engineering methods to develop commercially relevant, sugar-driven biochemical pathways. As it develops its algal biotech platform, it will begin to focus on the bioproduction of molecules for the energy, chemical, pharmaceutical and nutraceutical industries.

Percentage of Equity held by Applicant -- 5.54%

Investment Value /Percentage of Applicant's Total Assets -- \$10,754,019 / 7.9%

Date of Initial Investment -- November 24, 2004

TetraVitae Bioscience, Inc. ("TetraVitae") (Category A) -- TetraVitae is developing biobased chemicals, plastics and fuels. Its proprietary technology and expertise in the fields of industrial fermentations, process engineering, microbiology, and cellulosic feedstocks may significantly lower the costs of production, allowing it to compete with and potentially replace petroleum processes used to produce similar products. TetraVitae's initial focus is the production of biobutanol using a proprietary fermentation process and enhanced microorganism platform.

Percentage of Equity held by Applicant -- 2.0%

Investment Value /Percentage of Applicant's Total Assets -- \$125,000 / less than 1%

Date of Initial Investment -- October 8, 2008

Xradia, Inc. ("Xradia")(Category A) -- Xradia is commercializing ultra-high-resolution 3D x-ray microscopes and fluorescence imaging systems. Xradia's proprietary x-ray optics enable the development of extremely high-resolution x-ray microscope systems having wide application in fields, including semiconductor development and inspection, advanced materials, environmental science, nanotechnology and life sciences.

Percentage of Equity held by Applicant -- 15.1%

Investment Value /Percentage of Applicant's Total Assets -- \$5,723,215 / 4.2%

Date of Initial Investment -- December 29, 2006

3. Existence of Cash Positions

Applicant is an opportunistic investor that ideally would be as fully invested as practicable in the securities of its target portfolio companies. From time to time, however, Applicant may maintain a substantial portion of its assets in Cash Equivalents. Applicant does not believe it is in its shareholders' best interest to make investments solely for the purpose of reducing its cash positions. Applicant invests in a highly specialized area (nanotechnology and microsystems) in which appropriate investment opportunities are not always extant and, when identified, require significant diligence before an investment decision can be made. In fact, in 2009, Applicant actively reviewed over 300 potential investments.

As evidenced in the table below, Applicant made a number of investments in 2009, both in new portfolio companies and in the form of "follow-on" investments in existing portfolio companies. In addition, Applicant expects investment activity to continue in 2010, and Applicant believes that a number of additional investments will likely be made before the end of the year.

It is important to note that Applicant has no motive, indeed has a great discentive, to maintain a significant position in cash. Most notably, cash is a very unattractive asset class in terms of investment return. The higher the level of cash, the greater its potentially depressing impact on the overall internal rate of return of Applicant. Thus, Applicant believes that relying on cash as an asset class for investment returns would ultimately have an extremely negative effect on shareholders and, thus, ultimately on the market price of Applicant's stock.

Applicant raised additional capital in 2009 while it still had substantial cash on hand in anticipation of expected investments. Applicant experienced very strong deal flow (i.e., exposure to potential investments) in 2009 and anticipated, in hindsight correctly, that significant attractive investment opportunities would become available. Thus, in raising capital to supplement the cash already on hand, Applicant was simply acting in light of what it expected to be its needs for cash to fund the expected investment opportunities. Applicant expects to invest or reserve for potential follow-on investment the additional capital raised in the public market within two years from the offering date.



Harris & Harris Group, Inc. Equity Securities – Purchases							
Date	Company	Shares/Face	Description	Follow-on	New	Total	By Quarter
02/04/09	Crystal IS	\$ 408,573	Bridge Note	\$ 408,573		\$ 408,573	
02/13/09	Mersana Therapeutics	\$ 200,000	Bridge Note	\$ 200,000		\$ 200,000	
03/11/09	CFX Battery	4,457	Series A Convertible Preferred	\$ 3,492		\$ 3,492	
03/27/09	Biovex	459,942	Series F Convertible Preferred (converted to Series G on 11/5/09)	\$ 111,111		\$ 111,111	
							\$ 723,176
04/24/09	Adesto	\$ 550,000	Bridge Note	\$ 550,000		\$ 550,000	
04/30/09	Metabolon	1,000,000	Series C Convertible Preferred	\$ 1,000,000		\$ 1,000,000	
06/12/09	LLE	\$ 890,000	Bridge Note	\$ 890,000		\$ 890,000	
06/23/09	Polyremedy	676,147	Series B-2 Convertible Preferred	\$ 121,706		\$ 121,706	
06/30/09	Biovex	689,914	Series F Convertible Preferred (converted to Series G on 11/5/09)	\$ 166,667		\$ 166,667	
							\$ 2,728,373
07/02/09	Mersana Therapeutics	\$ 250,000	Bridge Note	\$ 250,000		\$ 250,000	
07/17/09	CFX Battery	680,690	Series A Convertible Preferred	\$ 533,239		\$ 533,239	
07/27/09	Ancora	\$ 125,000	Bridge Note	\$ 125,000		\$ 125,000	

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08/07/09	Cambrios	515,756	Series D Convertible Preferred	\$ 515,756	\$ 515,756
08/07/09	Orthovita	19,500	Common Stock	\$ 99,624	\$ 99,624
08/14/09	Orthovita	20,000	Common Stock	\$ 99,808	\$ 99,808

Date	Company	Shares/Face	Description	Follow-on	New	Total	By Quarter
8/19/09	Adesto Technologies	4,425,798	Series B Convertible Preferred	\$ 1,635,775		\$ 1,635,775	
08/26/09	Bridgelux	166,666	Series D Convertible Preferred	\$ 250,124		\$ 250,124	
08/28/09	Cobalt Technologies	176,056	Series C Convertible Preferred	\$ 374,999		\$ 374,999	
09/18/09	Ancora	\$ 200,000	Bridge Note	\$ 200,000		\$ 200,000	\$ 4,084,325
10/01/09	Innovalight	4,046,974	Series D Convertible Preferred	\$ 721,090		\$ 721,090	
10/13/09	Ancora	\$ 100,000	Bridge Note	\$ 100,000		\$ 100,000	