UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-Q

☑ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2008

o TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from

Commission file number 000 — 51481

ELECTRO-OPTICAL SCIENCES, INC.

(Exact name of Registrant as specified in its charter)

Delaware

(State or Other Jurisdiction of Incorporation or Organization)

13-3986004

(I.R.S. Employer Identification No.)

3 West Main Street, Suite 201 Irvington, New York

(Address of Principal Executive offices)

10533 (*Zip Code*)

Registrant's Telephone Number, including area code: (914) 591-3783

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes ☑ o

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer: o

Accelerated filer: \square

Non-accelerated filer: o

Smaller reporting company: o

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes o No ☑

As of August 7, 2008, 17,551,745 shares of the Registrant's common stock were outstanding.

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ELECTRO-OPTICAL SCIENCES, INC. CONDENSED BALANCE SHEETS

	June 30, 	December 31, 2007
ASSETS	(unautreu)	
Current Assets:		
Cash and cash equivalents	\$ 11,762,975	\$ 19,196,589
Marketable securities	893,854	1,719,905
Prepaid expenses and other current assets	152,234	411,554
Total Current Assets	12,809,063	21,328,048
Property and equipment, net	761,652	616,110
Patents and trademarks, net	106,420	118,138
Other assets	45,876	45,876
Total Assets	\$ 13,723,011	\$ 22,108,172
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current Liabilities:		
Accounts payable	\$ 884,615	\$ 567,987
Accrued expenses (includes related parties of \$15,000 as of June 30, 2008 and \$10,000 as of December 31, 2007)	1,034,634	674,711
Deferred income	25,238	74,946
Other current liabilities	21,935	18,804
Total Current Liabilities	1,966,422	1,336,448
COMMITMENTS AND CONTINGENCIES (Note 9)		
Stockholders' Equity		
Preferred stock — \$.10 par value; authorized 10,000,000 shares; none issued and outstanding at June 30, 2008 and at December 31, 2007		
Common stock — \$.001 par value; authorized 30,000,000 shares; issued and outstanding 15,418,294 shares at		
June 30, 2008 and 15,401,882 at December 31, 2007	15,418	15,402
Additional paid-in capital	64,134,904	63,930,689
Other comprehensive loss	(3,401)	(12,136)
Accumulated deficit	(52,390,332)	(43,162,231)
Stockholders' Equity	11,756,589	20,771,724
Total Liabilities and Stockholders' Equity	\$ 13,723,011	\$ 22,108,172

^{*} Derived from the audited balance sheet as of December 31, 2007

See accompanying notes to the financial statements

ELECTRO-OPTICAL SCIENCES, INC. CONDENSED STATEMENTS OF OPERATIONS (unaudited)

	Three months ended June 30,			Six months ended June 30,	
Operating expenses	2008	2007	2008	2007	
Operating expenses:					
Research and development	\$ 3,623,990	\$ 1,885,691	\$ 6,669,083	\$ 3,839,059	
General and administrative	1,474,679	1,439,172	2,914,474	2,750,362	
Operating loss	(5,098,669)	(3,324,863)	(9,583,557)	(6,589,421)	
Interest income	92,626	228,184	274,598	499,209	
Other income	54,772		80,858		
Net loss	(4,951,271)	\$ (3,096,679)	(9,228,101)	\$ (6,090,212)	
Basic and diluted net loss per common share	\$ (0.32)	\$ (0.23)	\$ (0.60)	\$ (0.46)	
Basic and diluted weighted average number of common shares					
outstanding	15,407,137	13,398,814	15,404,510	13,384,141	

See accompanying notes to the financial statements

ELECTRO-OPTICAL SCIENCES, INC. CONDENSED STATEMENTS OF CASH FLOWS (unaudited)

	Six Months En	nded June 30, 2007
Cash flows from operating activities:		
Net loss	\$ (9,228,101)	\$ (6,090,212)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	144,309	104,241
Noncash compensation	179,575	239,751
Common stock options issued for consulting fees		139,703
Amortization of unearned interest income — discontinued operations		(12,320)
Amortization of discount on marketable securities	882	
Changes in operating assets and liabilities:		
Decrease in prepaid expenses and other current assets	259,320	122,066
Decrease in deferred income	(49,708)	
Increase (decrease) in accounts payable and accrued expenses	676,551	(246,386)
Increase (decrease) in other current liabilities	3,131	(4,650)
Net cash used in operating activities	(8,014,041)	(5,747,807)
Cash flows from investing activities:		
Patent costs		(39,321)
Purchases of property and equipment	(278,133)	(191,162)
Sale of marketable securities	833,904	
Net provided by (cash used) in investing activities	555,771	(230,483)
Cash flows from financing activities:		
Proceeds from exercise of stock options	14,070	114,527
Proceeds from exercise of stock warrants	10,586	
Net cash provided by financing activities	24,656	114,527
Net decrease in cash and cash equivalents	(7,433,614)	(5,863,763)
Cash and cash equivalents at beginning of period	19,196,589	20,939,527
Cash and cash equivalents at end of period	\$11,762,975	\$15,075,764

See accompanying notes to the financial statements

ELECTRO-OPTICAL SCIENCES, INC. NOTES TO CONDENSED FINANCIAL STATEMENTS (In thousands, except for share and per share data)

(unaudited)

1. ORGANIZATION AND BASIS OF PRESENTATION

Electro-Optical Sciences, Inc., a Delaware corporation ("EOS" or the "Company"), is focused on the design and development of a non-invasive, point-of-care instrument for assisting in the early diagnosis of melanoma. The Company has entered into a Protocol Agreement with the Food and Drug Administration ("FDA") which is an agreement for the conduct of the pivotal clinical trial and establishment of the safety and effectiveness of the MelaFind® device. On October 12, 2006, the Company announced that the FDA informed the Company that when submitted, the MelaFind® premarket approval, or PMA, application would receive expedited review. Expedited review means that upon filing a PMA with the FDA, it is placed at the beginning of the FDA's queue and receives additional review resources. While the expedited review could shorten the MelaFind® FDA approval process, there can be no assurance that this will be the case. Upon obtaining premarket approval from the FDA, the Company plans to launch MelaFind® in the United States. The pivotal clinical trial commenced at the end of January 2007 and continues into the third quarter of 2008. At the end of July 2008, we completed the accrual phase of the pivotal trial; follow-up and data analysis is ongoing. The results of the trial are expected to be available in the fourth quarter. If the pivotal trial results and FDA approval process proceed as anticipated, management believes that PMA approval could come as early as the middle of 2009.

To date the Company has not generated any revenues from MelaFind[®]. All of the Company's historical revenues have come from activities and products that have since been discontinued, including our DIFOTI[®] product, a non-invasive imaging device for the detection of dental cavities. The Company discontinued all operations associated with its DIFOTI[®] product effective as of April 5, 2005 in order to focus its resources on the development and commercialization of MelaFind[®]. As more fully described in Note 13, in December 2006, the Company sold and licensed its rights to the DIFOTI[®] assets and does not expect to have any significant continuing responsibility for the DIFOTI[®] business or products.

The Company anticipates that it will continue to incur net losses for the foreseeable future in the development and commercialization of the Melafind® device. From inception, the Company has financed operations primarily through the sale of convertible preferred stock and subsequently sold common stock as part of an initial public offering on October 28, 2005 and two private placements: one that closed in November 2006, and a second that closed in August 2007 (refer to Note 10 for further details).

As of June 30, 2008, total cash, cash equivalents and marketable securities were \$12.7 million. On June 26, 2008, the Company filed a Form S-3 shelf registration statement for an indeterminate number of shares of common stock, warrants to purchase shares of common stock and units consisting of a combination thereof having an aggregate initial offering price not to exceed \$40 million. The Securities and Exchange Commission ("SEC") declared the registration statement effective on July 7, 2008 (file# 333-151935). Management utilized this shelf registration statement to raise additional equity capital by completing a public offering of approximately \$11.9 million for 2,088,451 common shares (\$11 million approximate net proceeds to the Company) on July 31, 2008 (see Note 14). Management anticipates that the proceeds from this offering combined with existing cash balances will allow the Company to fund anticipated levels of operations into 2010. The Company will require additional funds to achieve significant commercialization MelaFind®. However, there can be no assurances that the Company will be able to raise additional capital in the future. Additional funds may not become available on acceptable terms, and there can be no assurance that any additional funding that the Company does obtain will be sufficient to meet the Company's needs in the long term.

The Company faces certain risks and uncertainties which are present in many emerging medical device companies regarding future profitability, ability to obtain future capital, protection of patents and intellectual property rights, competition, rapid technological change, government regulations, changing health care marketplace, recruiting and retaining key personnel, and reliance on third party manufacturing organizations.

The unaudited condensed financial statements included herein have been prepared from the books and records of the Company pursuant to the rules and regulations of the SEC for reporting on Form 10-Q. The information and note disclosures normally included in complete financial statements prepared in accordance with generally accepted accounting principles in the United States ("GAAP") have been condensed or omitted pursuant to such rules and regulations. The interim financial statements should be read in conjunction with the audited financial statements and notes thereto included in the Company's Annual Report on Form 10-K for the year ended December 31, 2007.

The Company's management is responsible for the financial statements included in this document. The Company's interim financial statements are unaudited. Interim results may not be indicative of the results that may be expected for the year. However, the Company believes all adjustments considered necessary for a fair presentation of these interim financial statements have been included and are of a normal and recurring nature.

2. MARKETABLE SECURITIES

The Company's marketable securities consist of corporate debt securities and government bonds with a weighted average maturity not in excess of twelve months. The Company classifies its marketable securities as available-for-sale, as defined by Statement of Financial Accounting Standards ("SFAS") No. 115, "Accounting for Certain Investments in Debt and Equity Securities." Available-for-sale securities are carried at fair value, with unrealized gains and losses reported as a component of stockholders' equity in accumulated other comprehensive loss. Interest income, realized gains and losses, and declines in value of securities judged to be other-than-temporary are included in the Company's statement of operations. As of June 30, 2008, marketable securities consisted of:

	June 3	0, 2008
		Unrealized
	Fair Value	Gain (Loss)
Corporate debt securities	\$ 794	\$ (3)
Government securities	100	
	\$ 894	(3)

The Company evaluates declines in the fair value of its investments in available-for-sale marketable securities to determine if these declines are other-than-temporary. When a decline in value is determined to be other-than-temporary, an impairment charge would be recorded and a new cost basis in the investment would be established.

3. COMPREHENSIVE LOSS

Comprehensive loss includes net loss and unrealized gains and losses on available-for-sale marketable securities. Cumulative unrealized gains and losses on available-for-sale marketable securities are reflected as accumulated other comprehensive loss in stockholders' equity on the Company's balance sheet. For the three months ended June 30, 2008, comprehensive loss was \$4,939 which includes a net loss of \$4,951 and an unrealized gain on available-for-sale marketable securities of \$12. For the six months ended June 30, 2008, comprehensive loss was \$9,219 which includes a net loss of \$9,228 and an unrealized gain on available-for-sale marketable securities of \$9. The Company did not hold any marketable securities in the six months ended June 30, 2007. Hence, the comprehensive loss was the same as the net loss for the three and six months ended June 30, 2007.

4. USE OF ESTIMATES

The preparation of financial statements in conformity with GAAP requires the use of estimates and assumptions by management that affect reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The most significant estimates relate to stock based compensation arrangements and accrued expenses. Actual results could differ from these estimates.

5. RECENTLY ADOPTED ACCOUNTING PRONOUNCEMENTS

In February 2007, the Financial Accounting Standards Board ("FASB") issued SFAS No. 159, "The Fair Value Option for Financial Assets and Financial Liabilities, including an amendment to SFAS No. 115" ("SFAS No. 159"). This statement permits entities to choose to measure many financial instruments and certain other items at fair value. The objective is to improve financial reporting by providing entities with the opportunity to mitigate volatility in reporting earnings caused by measuring related assets and liabilities differently without having to apply complex hedge accounting provisions. This statement is expected to expand the use of fair value measurements, which is consistent with the FASB's long-term measurement objectives for accounting for financial instruments. SFAS No. 159 is effective for fiscal years beginning after November 15, 2007. The adoption of SFAS No. 159 did not have a material impact on the Company's financial statements.

In September 2006, the FASB issued SFAS No. 157, "Fair Value Measurements" ("SFAS 157"). This statement defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. This statement relating to financial assets is effective for financial statements issued for fiscal years beginning after November 15, 2007. The adoption of SFAS 157 did not have a material impact on the Company's financial statements. The provisions of SFAS 157 related to other non-financial assets and liabilities will be effective for the Company on January, 1, 2009, and will be applied prospectively. The Company is currently evaluating the impact that these additional SFAS 157 provisions will have on the Company's financial statements.

6. RECENT ACCOUNTING DEVELOPMENTS

In March 2008, the FASB issued SFAS No. 161 "Disclosures about Derivative Instruments and Hedging Activities" ("SFAS 161"). This new standard enhances disclosure requirements for derivative instruments in order to provide users of financial statements with an enhanced understanding of (i) how and why an entity uses derivative instruments, (ii) how derivative instruments and related hedged items are accounted for under SFAS No. 133 "Accounting for Derivative Instruments and Hedging Activities" and its related interpretations, and (iii) how derivative instruments and related hedged items affect an entity's financial position, financial performance, and cash flows. SFAS 161 is to be applied prospectively for the first annual reporting period beginning on or after November 15, 2008. The Company believes that the adoption of SFAS 161 will not have a material impact on the Company's financial statement disclosures since the Company does not currently have any derivative instruments.

In December 2007, the FASB issued SFAS No. 141R, Business Combinations ("SFAS 141R"). SFAS 141R replaces FASB SFAS No. 141, and establishes principles and requirements for how the acquirer of a business recognizes and measures in its financial statements the identifiable assets acquired, the liabilities assumed, and any noncontrolling interest in the acquired company. SFAS 141R also provides guidance for recognizing and measuring the goodwill acquired in the business combination and determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. SFAS 141R applies prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. The Company believes the adoption of this pronouncement will not have a material impact on the Company's financial statements.

In December 2007, the FASB issued SFAS No. 160, Noncontrolling Interests in Consolidated Financial Statements—an amendment of ARB No. 51 ("SFAS 160"). SFAS 160 amends ARB 51 to establish accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. It clarifies that a noncontrolling interest in a subsidiary is an ownership interest in the consolidated entity that should be reported as equity in the consolidated financial statements. In addition to the amendments to ARB 51, SFAS 160 amends FASB Statement No. 128, Earnings per Share, so that earnings-per-share data will continue to be calculated the same way those data were

calculated before SFAS 160 was issued. SFAS 160 is effective for fiscal years, and interim periods within those fiscal years, beginning on or after December 15, 2008. The Company believes the adoption of this pronouncement will not have a material impact on the Company's financial statements.

7. NET LOSS PER COMMON SHARE

Net loss per common share is presented in accordance with the provisions of SFAS No. 128, "Earnings Per Share" ("EPS"). Basic EPS excludes dilution for potentially dilutive securities and is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding during the period. Diluted EPS gives effect to dilutive options, warrants and other potential common shares outstanding during the period. Diluted net loss per common share is equal to the basic net loss per common share since all potentially dilutive securities are anti-dilutive for each of the periods presented. Potential common stock equivalents excluded consist of stock options and warrants which are summarized as follows:

	June	e 30,
	2008	2007
Common stock options	1,901,660	1,674,326
Warrants	1,124,544	626,845
Total	3,026,204	2,301,171

8. STOCK-BASED COMPENSATION

The Company has one stock-based compensation plan which allows the Board of Directors to grant incentives to employees, consultants, directors, officers and collaborating scientists in the form of incentive stock options, nonqualified stock options and restricted stock awards. The Company also has two other stock-based compensation plans pursuant to which stock options are outstanding but no new grants may be made.

The Company records compensation expense associated with stock options and other forms of equity compensation in accordance with SFAS No. 123 (revised 2004), "Share-Based Payment" ("SFAS 123R"), as interpreted by SEC Staff Accounting Bulletin No. 107. The Company has adopted the modified prospective transition method provided for under SFAS 123R. Under this transition method, compensation cost associated with stock options recognized in the three and six month periods ended June 30, 2008 and 2007 includes: (1) amortization related to the remaining unamortized portion of all stock option awards granted prior to January 1, 2006 over the requisite service period based on the grant-date fair value estimated in accordance with the original provisions of SFAS 123, "Accounting for Stock-Based Compensation", and (2) amortization related to all stock option awards granted on or subsequent to January 1, 2006, based on the grant-date fair value estimated in accordance with the provisions of SFAS 123R. For performance-based grants, a compensation charge is recorded when it is probable that performance or service conditions will be satisfied. The probability of vesting is updated at each reporting period, and compensation is adjusted via a cumulative catch-up adjustment or prospectively depending upon the nature of the change.

The compensation expense recognized in the Statement of Operations in the second quarter of 2008 and 2007 for stock options and restricted stock awards amounted to \$68 (of which \$20 relates to development milestones) and \$113 (of which \$36 relates to development milestones), respectively. For the six months ended June 30, 2008 and 2007, compensation expense totaled \$180 (of which \$53 relates to development milestones) and \$379 (of which \$91 relates to development milestones), respectively. Cash received from options exercised under all share-based payment arrangements for the three months ended June 30, 2008 and 2007 were \$14 and \$29, respectively, and for the sixth month periods ended June 30, 2008 and 2007, \$14 and \$115, respectively.

The fair value of each option award granted after the adoption of SFAS 123R is estimated on the date of grant using the Black-Scholes option valuation model and assumptions as noted in the following table:

	For the Six Months Ended June 30, 2008	For the Six Months Ended June 30, 2007
Expected life	5 years	5 years
Expected volatility	60%	60%
Risk-free interest rate	2.95–3.72%	4.54–5.02%
Dividend yield	0%	0%

The expected life of the options is based on the observed and expected time to post-vesting, forfeiture and exercise. Groups of employees that have similar historical exercise behavior are considered separately for valuation purposes. The expected volatility is based on implied volatility from other publicly-traded stock established at the time of our IPO. The risk-free interest rate is based on the continuous rates provided by the U.S. Treasury with a term equal to the expected life of the option. The expected divided yield is zero as the Company has never paid dividends and does not currently anticipate paying any in the foreseeable future.

Stock awards under the Company's current plans are granted at prices which are no less than the market value of the stock on the date of grant. Options granted under the 2005 Stock Incentive Plan ("2005 Plan") are generally time-based or performance-based options, and vesting varies accordingly. Options under this plan expire five years from the date of grant.

Since the Company adopted the 2005 Plan, the Company has ceased granting awards under the Company's previous stock option plans; however, additional shares are reserved for issuance pursuant to the 2003 Stock Incentive Plan ("2003 Plan") in connection with a formula-based option granted to the Company's CEO, Dr. Joseph Gulfo.

The status of the Company's stock option plans at June 30, 2008 is summarized in the following tables:

	Number of Shares	Weighted Average Exercise Price per Share	Weighted Average Remaining Contractual Term in Years	Aggregate Intrinsic Value
Outstanding at December 31, 2007	1,812,084	\$2.96	3.5	_
Granted	127,083	\$4.61	3.7	_
Exercised	(14,070)	1.00	_	_
Forfeited or expired	(23,437)	\$2.54	_	_
Outstanding at June 30, 2008	1,901,660	\$3.09	3.2	\$8,702
Vested and exercisable at June 30, 2008	633,056	\$3.70	3.0	\$2,512

		Options Outstanding			
	Weighted-		Options Exercisable		
		Average Remaining	Weighted Average		Weighted- Average
D (F) D	Number	Contractual	Exercise	Number	Exercise
Range of Exercise Prices	Outstanding	Life	<u>Price</u>	Exercisable	Price
\$.01-\$.46	912,780	1.2 years	\$.46	171,753	\$.46
\$.47-\$1.00	105,578	3.8 years	\$1.00	105,578	\$1.00
\$1.01–\$7.75	883,302	3.4 years	\$6.05	355,725	\$6.06
\$.01–\$7.75	1,901,660	3.2 years	\$3.09	633,056	\$3.70

During the three months and six months ended June 30, 2008, the weighted average fair value of options granted, estimated as of the grant date using the Black-Scholes option valuation model, was \$4.04 and \$2.63, respectively. For both the three and six month periods ended June 30, 2007, the weighted average fair value of options granted was \$2.86. For the three and six months ended June 30, 2008, the total intrinsic value of options exercised was \$118. For the three and six months ended June 30, 2007, the total intrinsic value of options exercised was \$117 and \$558 respectively.

As of June 30, 2008, of the total 1,901,660 options outstanding, 1,268,604 have not vested. Of this total unvested amount, 1,140,429 will vest upon the attainment of certain milestones, and the balance will vest over the requisite service period. Based on 18,444,498 shares outstanding (on a fully-diluted basis) as of June 30, 2008, and assuming such shares remain the total number of shares outstanding on the date we receive PMA approval of MelaFind®, the number of shares subject to Dr. Gulfo's formula-based stock option is 656,027. This formula-based option vests 50% at the time of PMA approval of MelaFind®, and the remaining 50% in four equal installments over the one-year period following such PMA approval of MelaFind®. As of June 30, 2008, there was \$2,990 of total unrecognized compensation cost related to unvested options to be recognized over period to be determined by milestones.

As of June 30, 2008, there were 833,851 shares available for future grants under the Company's 2005 Stock Incentive Plan. In addition, 203,532 shares are reserved under the 2003 Stock Incentive Plan for future allocation to Dr. Gulfo in accordance with the provisions of his formula-based stock option.

9. COMMITMENTS AND CONTINGENCIES

The Company is party to two non-cancelable operating leases for office space expiring June 2009 and January 2011. The leases are subject to escalations for increases in operating expenses. The approximate aggregate minimum future payments under these leases are due as follows:

200	08	2009	2010	2011
\$ 16	61	\$256	\$186	\$16

During March 2007, the Company entered into an agreement with L'Oreal to study and assess the feasibility of using EOS' novel multi-spectral imaging technology for the evaluation and differentiation of pigmented skin lesions of cosmetic importance. EOS has granted L'Oreal an option to take an exclusive license to use EOS technology in the field covered by the research, on terms to be mutually agreed. The option expires on the earlier to occur of six months after the completion of the Feasibility Plan, as defined in the agreement, or August 31, 2008. The laboratory and clinical research is being funded by L'Oreal. Pursuant to the agreement, L'Oreal is responsible for all costs and expenses incurred in connection with the Feasibility Program, and will reimburse EOS for expenses incurred by EOS with respect to the Feasibility Program. During the three and six months ended June 30, 2008, the Company earned \$42 and \$52, respectively from L'Oreal as other income to offset expenses incurred by EOS under the Feasibility Program. No amounts were earned during the three and six months ended June 30, 2007.

In August of 2006, the Company engaged Carl Zeiss Jena GmbH on usual commercial terms to build the lenses and assemblies, as well as provide certain technical consulting services for the MelaFind[®] units which have been used in the Company's pivotal clinical trial. The Company expects Carl Zeiss Jena GmbH to continue to supply lenses and assemblies throughout 2008.

In January 2006, the Company entered into an agreement with ASKION GmbH ("ASKION") to produce and test commercial-grade MelaFind® hand-held imaging device systems. Under the agreement, ASKION is to produce imaging devices for the Company to be utilized in the Company's pivotal trial and data collection sites in the United States and Europe. The Company is required to make payments to ASKION upon delivery of the MelaFind® systems. The Company expects to maintain a relationship, which has evolved into a month-to-month agreement, with ASKION and continue with production and development activities throughout 2008.

The Company has an employment agreement with its President and Chief Executive Officer, Dr. Gulfo, which provides for an annual base salary, stock options and discretionary performance bonuses. The agreement, which provides for automatic one-year renewal terms, currently runs through the end of 2008.

Effective March 1, 2008, the Board of Directors increased Dr. Gulfo's annual base salary to \$280 and awarded him a bonus of \$65.

The Company is not currently subject to any material legal proceedings, nor to management's knowledge is any material legal proceeding threatened against the Company.

10. PRIVATE PLACEMENTS

On October 31, 2006, the Company entered into securities purchase agreements and a registration rights agreement with certain accredited investors for the private placement of 2,312,384 shares of the Company's common stock and warrants to purchase up to 346,857 shares of the Company's common stock for aggregate gross proceeds of approximately \$13.2 million and net proceeds of approximately \$12.5 million. Pursuant to the securities purchase agreements, for a purchase price of \$5.70 each investor received one share of the Company's common stock and a warrant to purchase 0.15 of a share of the Company's common stock. The warrants are five-year warrants with an exercise price of \$6.70 per share. The private placement closed November 3, 2006. The private placement was completed pursuant to an exemption from registration provided by Section 4(2) of the Securities Act of 1933, as amended, and Regulation D promulgated thereunder.

On July 31, 2007, the Company entered into a securities purchase agreement and a registration rights agreement with certain accredited investors for the private placement of 2,000,178 shares of the Company's common stock and warrants to purchase up to 500,041 shares of the Company's common stock for aggregate gross proceeds of approximately \$11.5 million and net proceeds of approximately \$10.7 million. The private placement closed August 3, 2007. Pursuant to the securities purchase agreement, for a purchase price of \$5.75 each investor received one share of the Company's common stock and a warrant to purchase 0.25 of a share of common stock. The warrants are five-year warrants with an exercise price of \$8.00 per share. The private placement was completed pursuant to an exemption from registration provided by Section 4(2) of the Securities Act of 1933, as amended, and Regulation D promulgated thereunder.

Pursuant to the terms of the registration rights agreements, the Company filed resale registration statements covering the shares in both private placements, including the shares issuable upon exercise of the warrants, with the SEC. In the unlikely event that the Company fails to meet certain deadlines, as described in the registration rights agreements, the holders would be entitled to certain monetary damages. However, in no event is the Company obligated to make payments in excess of 10% of the aggregate purchase price of the common shares. The Company has concluded that it is unlikely that the Company would be required to remit any payments to its investors for failing to maintain its effectiveness. The Company's resale registration statements on Forms S-3 were declared effective by the SEC (file #333-139056 and file #333-145740) on February 12, 2007 and September 11, 2007, respectively.

On June 26, 2008, the Company filed a Form S-3 shelf registration statement for an indeterminate number of shares of common stock, warrants to purchase shares of common stock and units consisting of a combination thereof having an aggregate initial offering price not to exceed \$40 million. The SEC declared the registration statement effective on July 7, 2008 (file# 333-151935) (See Note 14).

11. WARRANTS

Warrants outstanding at June 30, 2008 include a five-year warrant to purchase 75,000 shares of the Company's common stock at an exercise price of \$7.00 per share issued to one of the Company's consultants in 2004, and seven-year warrants to purchase an aggregate of 52,646 shares the Company's common stock at an exercise price of \$4.52 per share issued in connection with the sale of Series C redeemable convertible preferred stock.

In connection with the Company's initial public offering which closed on November 2, 2005, the Company issued 150,000 warrants to the underwriters to purchase shares of the Company's common stock at \$6.25 per share, which became exercisable commencing October 28, 2006, and have a five-year term.

Additionally, as previously discussed, in connection with the Company's two private placement financings the following warrants have been granted and remain outstanding as of June 30, 2008:

Financing that closed November 3, 2006: warrants to purchase up to 346,857 shares of the Company's common stock were issued. The warrants are five-year warrants with an exercise price of \$6.70 per share,

Financing that closed August 3, 2007: warrants to purchase up to 500,041 shares of the Company's common stock were issued. The warrants are five-year warrants with an exercise price of \$8.00 per share.

Cash received from warrants exercised for the both the three months and six months ended June 30, 2008 and 2007 were \$11 and \$0, respectively.

12. RELATED PARTY CONSULTING AGREEMENTS

The Company has in place the following consulting agreements with related parties:

Consulting Agreement with Breaux Castleman

In June 2003, the Company entered into a consulting agreement with Breaux Castleman, the Chairman of the Company's Board of Directors, for consulting services related to the FDA approval of MelaFind®, and the Company's business and financial strategy. Under this agreement, Mr. Castleman receives compensation for each month of services rendered. The Company made payments, pursuant to this consulting agreement, of \$6 in each of the three month periods ending June 30, 2008 and 2007 and \$12 in each of the six month periods ending June 30, 2008 and 2007. This consulting agreement is terminable by either party by providing thirty days' prior written notice.

Consulting Agreement with Marek Elbaum, Ph.D.

Pursuant to a consulting agreement effective as of May 31, 2005, the Company retained Marek Elbaum, Ph.D., the Company's founder and former President and Chief Science and Technology Officer, as the Company's Chief Scientist. In consideration of the services to be provided, the Company agreed to pay Dr. Elbaum a monthly fee of \$15. The term of this agreement extended for a period of two years and was automatically renewable for an additional one-year period. In the event of a non-renewal or in the event that Dr. Elbaum's services terminate as a result of his death or disability, the Company agreed to pay Dr. Elbaum a termination fee of \$100. In May of 2007 and effective June 1, 2007, Dr. Elbaum and the Company entered into an amended agreement. Under the terms of the amended agreement, Dr. Elbaum will be paid a monthly fee of \$9 through January 2009.

Consulting Agreement with Robert Friedman, M.D.

The Company has retained the services of Robert Friedman, M.D. as a consultant, medical advisor to the Company's Board of Directors, and in connection with the clinical testing of MelaFind®. In consideration for these services, Dr. Friedman is being paid at a rate of \$5 per day.

This consulting agreement continues to automatically renew for successive one-year terms unless either party terminates the agreement at least 30 days prior to its expiration. The Company made payments to Dr. Friedman totaling \$15 for the three month period ending June 30, 2008. Payments of \$27.5 were made to Dr. Friedman in the six months ending June 30, 2008. The Company paid Dr. Friedman \$12 for the three and six month periods ending June 30, 2007.

Consulting Agreement with Gerald Wagner, Ph.D.

On March 24, 2006, the Company entered into an amended and restated consulting agreement with Gerald Wagner, Ph.D., a member of the Company's Board of Directors and its former Acting Chief Operating Officer. Under this amended consulting agreement, the Company agreed to pay Dr. Wagner the annual amount of \$180 payable monthly over the term of the agreement. In addition, in connection with his ongoing engagement as a consultant, Dr. Wagner received a stock option grant of 50,000 shares of the Company's common stock which vested upon commencement of the pivotal trial for Melafind® in January 2007. The Company recorded a \$140 charge to operations during the six months ended June 30, 2007.

In addition, in connection with the start of the Company's pivotal clinical trial at the end of January 2007, Dr. Wagner transitioned out of his role as the Company's Acting Chief Operating Officer and has entered into an amended consulting contract with the Company. Under the terms of the amended contract, Dr. Wagner will be paid a monthly retainer of \$2.5 and will be paid \$2.5 for each additional consulting day. This amended agreement will end at the option of Dr. Wagner or the Company at any time, by providing fifteen days' prior written notice, or immediately upon the mutual agreement of the Company and Dr. Wagner. The Company incurred consulting costs pursuant to this agreement of \$17.5 in the three month period ended June 30, 2008 compared to \$7.5 for the same period a year earlier. For the six month period ending June 30, 2008 and 2007, the Company paid Dr. Wagner \$25 and \$30, respectively.

13. SALE AND LICENSING OF DISCONTINUED OPERATIONS

In April 2005, the Company decided to discontinue all operations associated with its DIFOTI® product in order to focus its resources and attention on the development and commercialization of MelaFind®. In accordance with the provisions of SFAS No. 144, "Accounting for the Impairment or Disposal of Long-lived Assets," the results of operations of the DIFOTI® business were excluded from continuing operations and have been reported as discontinued operations. The assets and liabilities of the business were classified as held for sale. During December 2006, the Company entered into a sale and exclusive licensing agreement with KaVo Dental GmbH ("KaVo"), a leading dental equipment manufacturer, which provides for KaVo to further develop and commercialize DIFOTI®. Upon execution of the agreement, KaVo paid the Company \$500. The second \$500 payment was received on July 20, 2007. Beginning in July 2008, KaVo is required to pay to the Company a royalty stream based upon the worldwide aggregate net sales of the licensed product, as defined in the license agreement, or a set minimum. During the year ended December 31, 2007, the Company recorded \$28 as the balance of the gain on the sale and licensing of its remaining DIFOTI® assets, \$781 of the gain had been recorded in the year ended December 31, 2006. Royalties will be recorded when earned.

14. SUBSEQUENT EVENTS

The MelaFind® pivotal clinical trial commenced at the end of January 2007 and continues into the third quarter of 2008. At the end of July 2008, we completed the accrual phase of the pivotal trial; follow-up and data analysis is ongoing.

On June 26, 2008, the Company filed a Form S-3 shelf registration statement for an indeterminate number of shares of common stock, warrants to purchase shares of common stock and units consisting of a combination thereof having an aggregate initial offering price not to exceed \$40 million. The SEC declared the registration statement effective on July 7, 2008 (file# 333-151935). Management utilized this shelf registration statement to raise additional equity capital by completing a public offering of \$11.9 million for 2,088,451 common shares (\$11 million approximate net proceeds to the Company) on July 31, 2008. Management anticipates that the proceeds from this offering combined with existing cash balances will allow the Company to fund anticipated levels of operations into 2010. The Company will require additional funds to achieve significant commercialization of MelaFind®. However, there can be no assurances that the Company will be able to raise additional capital in the future. Additional funds may not become available on acceptable terms, and there can be no assurance that any additional funding that the Company does obtain will be sufficient to meet the Company's needs in the long term. The sale closed August 8, 2008.

ITEM 2.

ELECTRO-OPTICAL SCIENCES, INC. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This management's discussion and analysis of financial condition and results of operations is intended to provide information to help you better understand and evaluate our financial condition and results of operations. We recommend that you read this section in conjunction with our Financial Statements and Notes to Financial Statements and with our Annual Report on Form 10-K for the year ended December 31, 2007.

This quarterly report on Form 10-Q, including the following management's discussion and analysis of financial condition and results of operations, contains forward-looking statements that you should read in conjunction with the financial statements and notes to financial statements that we have included elsewhere in this report. These statements are based on our current expectations, assumptions, estimates and projections about our business and our industry, and involve known and unknown risks, uncertainties, and other factors that may cause our or our industry's results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied in, or contemplated by, the forward-looking statements. Words such as "believe", "anticipate," "expect," "intend," "plan," "will," "may," "should," "estimate," "predict," "potential," "continue," or the negative of such terms or other similar expressions, identify forward-looking statements. Our actual results and the timing of events may differ significantly from the results discussed in the forward-looking statements, and you should not place undue reliance on these statements. Factors that might cause such a difference include those discussed below under the heading "Risk Factors," as well as those discussed elsewhere in this quarterly report on Form 10-Q. We disclaim any intent or obligation to update any forward-looking statements as a result of developments occurring after the period covered by this report or otherwise.

Overview

We are a medical device company focused on the design and development of a non-invasive, point-of-care instrument to assist in the early diagnosis of melanoma. Our flagship product, MelaFind®, features a hand-held imaging device that emits multiple wavelengths of light to capture images of suspicious pigmented skin lesions and extract data. We currently do not have any commercialized products or any significant source of revenue. We discontinued all operations associated with our DIFOTI® product effective as of April 5, 2005 in order to focus our resources and attention on the development and commercialization of MelaFind®. On December 11, 2006, we announced that we had signed a sales and exclusive licensing agreement with KaVo Dental GmbH ("KaVo"), a leading dental equipment manufacturer, to further develop and commercialize DIFOTI®. In accordance with the terms of the agreement, KaVo paid us an up-front sum and made a second payment to us on July 20, 2007. Beginning in the second half of 2008, KaVo is required to pay us an annual royalty based on the number of systems sold or a set minimum per calendar year following their commercial re-launch of DIFOTI®. With the completion of this transaction, we do not have any significant continuing responsibility for the DIFOTI® business.

Unless otherwise indicated, the following discussion relates to our continuing operations.

We commenced operations in December 1989 as a New York corporation and re-incorporated as a Delaware corporation in September 1997. Since our inception, we have generated significant losses. As of June 30, 2008, we had an accumulated deficit of \$52.4 million. We expect to continue to spend significant amounts on the development of MelaFind®.

Our revenue for the foreseeable future will depend on the commercialization of MelaFind® and may vary substantially from year to year and quarter to quarter. Our operating expenses may also vary substantially from year to year and quarter to quarter based on the timing of activities and approvals. At the end of July 2008 we completed the accrual phase of the pivotal trial; follow-up and data analysis is ongoing. We

believe that period-to-period comparisons of our results of operations may not be meaningful and should not be relied on as indicative of our future performance.

Liquidity and Capital Resources

Prior to our initial public offering, we financed our operations primarily through the use of working capital from private placements of equity securities and by applying for and obtaining a series of National Institute of Health Small Business Innovative Research grants and similar grants.

In October and November of 2005, we sold a total of 4,262,300 shares of common stock in an initial public offering that resulted in approximately \$17.7 million in net proceeds.

On October 31, 2006, we entered into securities purchase agreements and a registration rights agreement with certain accredited investors for the private placement of 2,312,384 shares of the Company's common stock and warrants to purchase up to 346,857 shares of the Company's common stock for aggregate gross proceeds of approximately \$13.2 million and net proceeds of approximately \$12.5 million. The transaction closed November 3, 2006.

On July 31, 2007, the Company entered into a securities purchase agreement and a registration rights agreement with certain accredited investors for the private placement of 2,000,178 shares of the Company's common stock and warrants to purchase up to 500,041 shares of the Company's common stock for aggregate gross proceeds of approximately \$11.5 million and net proceeds of approximately \$10.7 million. This transaction closed August 3, 2007.

Most of our expenditures to date have been for research and development activities and general and administrative expenses. Research and development expenses represent costs incurred for product development, clinical trials, activities related to regulatory filings, and manufacturing development efforts. We expense all of our research and development costs as they are incurred.

To date, we have not borrowed (other than by issuing convertible notes, all of which have been converted into equity) or financed our operations through equipment leases, financing loans or other debt instruments.

As of June 30, 2008, total cash, cash equivalents and marketable securities were \$12.7 million. On June 26, 2008, the Company filed a Form S-3 shelf registration statement for an indeterminate number of shares of common stock, warrants to purchase common stock and units consisting of a combination thereof having an aggregate initial offering price not to exceed \$40 million. The SEC declared the registration statement effective on July 7, 2008 (file# 333-151935). Management utilized this shelf registration statement to raise additional equity capital by completing a public offering of approximately \$11.9 million for 2,088,451 common shares (\$11 million approximate net proceeds to the Company) on July 31, 2008. Management anticipates that the proceeds from this offering combined with existing cash balances will allow the Company to fund anticipated levels of operations into 2010. The Company will require additional funds to achieve significant commercialization of MelaFind®. However, there can be no assurances that the Company will be able to raise additional capital in the future. Additional funds may not become available on acceptable terms, and there can be no assurance that any additional funding that the Company does obtain will be sufficient to meet the Company's needs in the long term.

Our cash and cash equivalents at June 30, 2008 are liquid investments in money market funds and deposits with a commercial bank.

Operating Capital and Capital Expenditure Requirements

We face certain risks and uncertainties, which are present in many emerging medical device companies. At June 30, 2008, we had an accumulated deficit of \$52.4 million. To date, we have not commercialized our principal product, MelaFind®. We anticipate that we will continue to incur net losses for the foreseeable future as we continue to develop the MelaFind® system, expand our corporate infrastructure, and prepare for the potential commercial launch of MelaFind®. We do not expect to generate significant product revenue until we successfully obtain PMA approval for and begin selling MelaFind®.

If additional funds are raised through the issuance of debt securities, these securities could have rights senior to those associated with our common stock and could contain covenants that would restrict our operations. If we are unable to obtain additional financing, we may be required to reduce the scope of, delay or eliminate some or all of planned product research and development and commercialization activities, which could harm our business.

Because of the numerous risks and uncertainties associated with the development of medical devices such as MelaFind®, we are unable to estimate the exact amounts of capital outlays and operating expenditures associated with our current and anticipated clinical trials. Our future funding requirements will depend on many factors, including, but not limited to:

- The schedule, costs, and results of our clinical trials;
- The success of our research and development efforts;
- The costs and timing of regulatory approval;
- Reimbursement amounts for the use of MelaFind® that we are able to obtain from Medicare and third party payers, or the amount of direct payments we are able to obtain from patients and/or physicians utilizing MelaFind®;
- The cost of commercialization activities, including product marketing and building a domestic direct sales force;
- The emergence of competing or complementary technological developments;
- The costs of filing, prosecuting, defending and enforcing any patent claims and other rights, including litigation costs and the results of such litigation;
- · The costs involved in defending any patent infringement actions brought against us by third parties; and
- Our ability to establish and maintain any collaborative, licensing or other arrangements, and the terms and timing of any such arrangements.

Contractual Obligations (in thousands)

The following table summarizes our outstanding contractual obligations as of June 30, 2008, and the effect those obligations are expected to have on our liquidity and cash flows in future periods:

		More than			
	Total	1 year	1–3 years	4–5 years	5 years
Operating leases	\$619	\$326	\$293	\$	\$

The indicated operating leases are non-cancelable operating leases for space expiring June 2009 and January 2011. The lease on 5,000 square feet of office and laboratory space expires in June 2009. The lease on 2,800 square feet of office space and the lease for an additional 2,500 square feet of office space adjacent to our existing laboratory location expire January 2011.

Results of Operations (in thousands)

Through the first six months of 2008, the Company continued the development of the MelaFind® system, intensified the data accrual activity of the pivotal clinical trial started in 2007, addressed the requirements of the FDA quality service regulation, and initiated the development of processes and equipment to allow for the efficient manufacturing of MelaFind® in quantities necessary for commercialization. Even with the completion of the data accrual phase of the pivotal clinical trial at the end of July 2008, as we move toward PMA submission and the commercial launch of MelaFind® our overall costs will likely continue to rise due to increases in quality, technical support, and marketing activities.

Three Months Ended June 30, 2008 Compared to Three Months Ended June 30, 2007

Research and Development Expense

Research and development expense increased 92% for the three month period ended June 30, 2008 compared to the same period ended June 30, 2007. These cost increases were principally attributable to:

- product development greater use was made of design consultants in 2008 than in 2007.
- clinical studies costs in 2008 the number of study sites was increased over the number in 2007 when the pivotal clinical trial was just commencing.
 Additionally, activity in the collection and confirmation of data was intensified both through use of consultants and the hiring of additional in-house clinical personnel.
- quality and regulatory as we moved closer to PMA submission, we made use of consultants and added in-house personnel to address the requirements of the FDA quality service regulation.
- development activities we focused on processes and equipment to increase manufacturing capacity as we move toward MelaFind® commercialization
 and product launch. Extensive work was done on developing process instructions, targets, molds and fixtures to increase the manufacturing through-put
 capability of MelaFind® manufacturing.

General and Administrative Expense

General and administrative expenses consist primarily of salaries and related expenses of general corporate activities, certain costs associated with our efforts to obtain PMA approval for MelaFind® and toward development of a commercial infrastructure to market and sell MelaFind®.

General and Administrative expense for the three months ended June 30, 2008 increased 3% as compared to the same period ended June 30, 2007. This increase is reflective of year-to-year compensation level adjustments and the additional rent following expansion of our leased space in August of 2007. Marketing activities towards MelaFind® product launch and technical support capabilities for systems to be placed in doctor's offices were slowed during the quarter as the pivotal clinical trial continued through the period.

Six Months Ended June 30, 2008 Compared to Six Months Ended June 30, 2007

Research and Development Expense

Research and development expense increased 74% for the six month period ended June 30, 2008 compared to the same period ended June 30, 2007, attributable to activities consistent with that described for the three month period above. The percentage increase was less over the full six month period as the intensified clinical studies and manufacturing process activities began late in the first quarter of 2008.

We continue to work with ASKION, a company that has become an integral member of our MelaFind® development team. ASKION is currently producing additional MelaFind® systems for other clinical studies of MelaFind®. Our research and development expenses are subject to the risks and uncertainties associated with clinical trials and the FDA regulatory review and approval process. As a result, our research and development expenses could exceed our estimated amounts, possibly materially.

General and Administrative Expense

General and administrative expense for the six months ended June 30, 2008 increased 6% as compared to the same period ended June 30, 2007. This increase is reflective of year-to-year compensation level adjustments and the additional rent following the expansion of our leased space in August of 2007. In the second half of 2008, proposed new marketing activities toward MelaFind® product launch and technical support capabilities for systems to be placed in doctor's offices could increase the level of general and administrative costs.

Interest Income/Expense

Interest income for the three and six months ended June 30, 2008 was 59% and 45% lower than the comparable periods in 2007. The decrease is primarily related to the lower interest rates available for investment of our cash balances as well our average cash balance being \$1.8 and \$1.2 million lower for the three months and six months ended June 30, 2008, respectively, compared to the same periods a year earlier.

Other Income

During the three and six month periods ended June 30, 2008, the Company's other income included \$42 and \$52 respectively from L'Oreal as an offset to expenses the Company incurred under our joint feasibility program, and \$13 and \$23 respectively from Kavo for product support of the discontinued dental product line the Company sold to Kavo in 2006. There was no other income earned during the first six months of 2007.

Deferred Income

As of June 30, 2008, deferred income was \$25, which included \$22 received from L'Oreal which has not yet been earned as expense offset to our joint feasibility study, and \$3 billed to Kavo but not yet earned under our product support agreement. There was no deferred income recorded during the six months ended June 30, 2007.

Critical Accounting Policies and Significant Judgments and Estimates

Our management's discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with GAAP. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements as well as the reported revenues and expenses during the reporting periods. On an ongoing basis, we evaluate our judgments related to accounting estimates. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

We believe that the following accounting policies and significant judgments and estimates relating to revenue recognition, stock-based compensation charges, and accrued expenses are most critical to aid you in fully understanding and evaluating our reported financial results.

Revenue Recognition

We currently do not have any commercialized products or any source of revenue.

Stock-Based Compensation

Effective January 1, 2006, the Company began recording compensation expense associated with stock options and other forms of equity compensation in accordance with Statement of Financial Accounting Standards No. 123 (revised 2004), *Share-Based Payment* ("SFAS 123R"), as interpreted by SEC Staff Accounting Bulletin No. 107. Prior to January 1, 2006, the Company accounted for stock options according to the provisions of Accounting Principles Board Opinion No. 25, *Accounting for Stock Issued to Employees* ("APB 25"), and related interpretations, and therefore no related compensation expense was recorded for awards granted with no intrinsic value.

The Company adopted the modified prospective transition method provided for under SFAS 123R. Under this transition method, compensation cost associated with stock options in 2007 and 2008 includes: (1) quarterly amortization related to the remaining unamortized portion of all stock option awards granted prior to January 1, 2006, over the requisite service period based on the grant-date fair value estimated in accordance with the original provisions of SFAS 123, *Accounting for Stock-Based Compensation*; and (2) quarterly amortization related to all stock option awards granted on or subsequent to January 1, 2006, based on the grant-date fair value estimated in accordance with the provisions of SFAS 123R.

We have also granted to certain employees stock options that vest with the attainment of milestones not under the Company's control. Upon the attainment of the relevant milestones, there could be a significant compensation charge based on the fair value of such options.

Options or warrants issued to non-employees for services are recorded at fair value and accounted for in accordance with Emerging Issues Task Force Issue No. 96-18, *Accounting for Equity Instruments That Are Issued to Other Than Employees for Acquiring, or in Conjunction with Selling, Goods or Services* ("EITF 96-18"). For equity instruments that are not immediately vested, compensation costs are measured on the date such instruments vest or a performance commitment is reached, as defined in EITF 96-18. The costs are classified in the accompanying Statement of Operations based on the nature of the service performed.

Accrued Expenses

As part of the process of preparing financial statements, we are required to estimate accrued expenses. This process involves identifying services that have been performed on our behalf and estimating the level of service performed and the associated cost incurred for such service where we have not been invoiced or otherwise notified of the actual cost. Examples of estimated accrued expenses include:

- professional service fees;
- contract clinical service fees;
- · fees paid to contract manufacturers in conjunction with the production of clinical components or materials; and
- fees paid to third party data collection organizations and investigators in conjunction with the clinical trials.

In connection with such service fees, our estimates are most affected by our projections of the timing of services provided relative to the actual level of services incurred by such service providers. The majority of our service providers invoice us monthly in arrears for services performed. In the event that we do not identify certain costs that have begun to be incurred or we are under or over our estimate of the level of services performed or the costs of such services, our actual expenses could differ from such estimates. The date on which certain services commence, the level of services performed on or before a given date, and the cost of such services are often subjective determinations. We make these judgments based upon the facts and circumstances known to us in accordance with GAAP. This is done as of each balance sheet date in our financial statements.

Cash Flows from Operating Activities

Net cash used in operations was \$8,014 for the six months ended June 30, 2008. For the corresponding period in 2007, net cash used in operations was \$5,748. In both periods, cash used in operations was attributable to net losses after an adjustment for non-cash charges related to depreciation/amortization and share-based compensation, and other changes in operating assets and liabilities.

Cash Flows from Investing Activities

For the six months ended June 30, 2008, net cash provided by our investing activities was \$556 and was principally related to the redemption of marketable securities offset by the purchase of information technology and manufacturing capabilities related equipment in support of MelaFind®. For the corresponding period in 2007, net cash used by our investing activities was \$230 that was principally related to the purchase of property and equipment and patent application related costs.

Cash Flows from Financing Activities

For the six months ended June 30, 2008, net cash provided by financing activities was \$25 and reflects proceeds from the sale of common stock upon the exercise of options and warrants. For the six months ended June 30, 2007, net cash provided by financing activities was \$115 and reflects proceeds from the sale of common stock upon the exercise of options.

Related Party Transactions

On March 24, 2006, the Company entered into an amended and restated consulting agreement with Gerald Wagner, Ph.D. which became effective as of April 1, 2006. In connection with his ongoing engagement as a consultant, Dr. Wagner received a stock option grant of 50,000 shares of the Company's common stock which vested upon commencement of the pivotal clinical trial for MelaFind® at the end of January 2007. As Dr. Wagner is a consultant to the Company, we utilize EITF 96-18 to account for this grant. As the pivotal clinical trial began at the end of January 2007, the Company recognized \$140 in compensation expense for this grant.

In addition, on March 24, 2006, Dr. Wagner received another stock option grant of 49,500 shares of the Company's common stock which vested immediately. The Company recorded a \$162 compensation charge during the first quarter ended June 30, 2006.

The exercise price for these two stock option grants is the closing price per share of the Company's common stock on the option grant date.

With the start of our pivotal clinical trial, Dr. Wagner has transitioned out of his role as our Acting Chief Operating Officer and has signed an amendment to his amended and restated consulting contract with the Company. Under the terms of the amended contract, Dr. Wagner is paid a monthly retainer of \$2.5 and will be paid \$2.5 for each additional consulting day.

This amended agreement will end at the option of Dr. Wagner or the Company at any time, by providing fifteen days' prior written notice, or immediately upon the mutual agreement of the Company and Dr. Wagner.

For a more detailed description of our related party transactions, see our financial statements and the related notes to our financial statements in Note 12.

Off-Balance Sheet Arrangements

We do not currently have, nor have we ever had, any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes. In addition, we do not engage in trading activities involving non-exchange traded contracts. As such, we are not materially exposed to any financing, liquidity, market or credit risk that could arise if we had engaged in these relationships.

Recently Adopted Accounting Pronouncements

In February 2007, the FASB issued SFAS No. 159, "The Fair Value Option for Financial Assets and Financial Liabilities, including an amendment to SFAS No. 115" ("SFAS No. 159"). This statement permits entities to choose to measure many financial instruments and certain other items at fair value. The objective is to improve financial reporting by providing entities with the opportunity to mitigate volatility in reporting earnings caused by measuring related assets and liabilities differently without having to apply complex hedge accounting provisions. This statement is expected to expand the use of fair value measurements, which is consistent with the FASB's long-term measurement objectives for accounting for financial instruments. SFAS No. 159 is effective for fiscal years beginning after November 15, 2007. The adoption of SFAS No. 159 did not have a material impact on our financial statements.

In September 2006, the FASB issued SFAS No. 157, "Fair Value Measurements" ("SFAS No. 157"). This statement defines fair value, establishes a framework for measuring fair value, and expands disclosures about fair value measurements. This statement is effective for financial statements issued for fiscal years beginning after November 15, 2007; however, earlier application is encouraged. The adoption of SFAS No. 157 did not have a material impact on our financial statements.

Recent Accounting Developments

In March 2008, the FASB issued Statement of Financial Accounting Standards No. 161 "Disclosures about Derivative Instruments and Hedging Activities" ("SFAS 161"). This new standard enhances disclosure requirements for derivative instruments in order to provide users of financial statements with an enhanced understanding of (i) how and why an entity uses derivative instruments, (ii) how derivative instruments and related hedged items are accounted for under Financial Accounting Standards No. 133 "Accounting for Derivative Instruments and Hedging Activities" and its related interpretations, and (iii) how derivative instruments and related hedged items affect an entity's financial position, financial performance, and cash flows. SFAS 161 is to be applied prospectively for the first annual reporting period beginning on or after November 15, 2008. We believe that the adoption of SFAS 161 will not have a material impact on our financial statement disclosures since we do not currently have any derivative instruments.

In December 2007, the FASB issued SFAS No. 141R, Business Combinations ("SFAS 141R"). This statement replaces FASB SFAS No. 141 and establishes principles and requirements for how the acquirer of a business recognizes and measures in its financial statements the identifiable assets acquired, the liabilities assumed, and any noncontrolling interest in the acquire. SFAS 141R also provides guidance for recognizing and measuring the goodwill acquired in the business combination and determines what information to disclose to enable users of the financial statements to evaluate the nature and financial effects of the business combination. This statement applies prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. We believe the adoption of this pronouncement will not have a material impact on our financial statements.

In December 2007, the FASB issued SFAS No. 160, Noncontrolling Interests in Consolidated Financial Statements—an amendment of ARB No. 51. This statement amends ARB 51 to establish accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. It clarifies that a noncontrolling interest in a subsidiary is an ownership interest in the consolidated entity that should be reported as equity in the consolidated financial statements. In addition to the amendments to ARB 51, this statement amends FASB Statement No. 128, Earnings per Share, so that earnings-per-share data will continue to be calculated the same way those data were calculated before this statement was issued. This statement is effective for fiscal years, and interim periods within those fiscal years, beginning on or after December 15, 2008. We believe the adoption of this pronouncement will not have a material impact on the our financial statements.

ITEM 3.

Quantitative and Qualitative Disclosures about Market Risk

Our exposure to market risk is confined to our cash, cash equivalents, and short-term investments. We invest in high-quality financial instruments, primarily money market funds, federal agency notes, and US Treasury obligations, with the average effective duration of the portfolio within one year which we believe are subject to limited credit risk. We currently do not hedge interest rate exposure. Due to the short-term nature of our investments, we do not believe that we have any material exposure to interest rate risk arising from our investments. The Company is exposed to credit risks in the event of default by the financial institutions or issuers of investments in excess of FDIC insured limits. The Company performs periodic evaluations of the relative credit standing of these financial institutions and limits the amount of credit exposure with any institution.

ITEM 4.

Controls and Procedures

Evaluation of disclosure controls and procedures

Based on their evaluation as of June 30, 2008, our Chief Executive Officer and Chief Financial Officer have concluded that our disclosure controls and procedures as defined in Rules 13a-15(e) and 15d-15(e) of the Securities Exchange Act of 1934, as amended, were sufficiently effective to ensure that the information required to be disclosed by us in this Quarterly Report on Form 10-Q was recorded, processed, summarized and reported within the time periods specified in the SEC's rules and Form 10-Q.

Change in internal control over financial reporting

There were no changes in our internal control over financial reporting during the quarter ended June 30, 2008 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Limitations on the effectiveness of controls

Our disclosure controls and procedures are designed to provide reasonable, not absolute, assurance that the objectives of our disclosure control system are met. Because of inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues, if any, within a company have been detected.

ITEM 4T. Controls and Procedures

Not applicable.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings.

We are not currently subject to any material legal proceedings, nor, to our knowledge, is any material legal proceeding threatened against us. From time to time, we may be a party to certain legal proceedings, incidental to the normal course of our business.

Item 1A. Risk Factors

Our business and operations entail a variety of serious risks and uncertainties, including those described in Item 1A of our Form 10-K for the year ended December 31, 2007. In addition, the following risk factors have changed during the six months ended June 30, 2008:

We currently do not have, and may never develop, any commercialized products.

We currently do not have any commercialized products or any significant source of revenue. We have invested substantially all of our time and resources over the last six years in developing MelaFind® will require additional development, clinical evaluation, regulatory approval, significant marketing efforts and substantial additional investment before it can provide us with any significant revenue. Our efforts may not lead to commercially successful products for a number of reasons, including:

- we may not be able to obtain regulatory approvals for MelaFind®, or the approved indication may be narrower than we seek;
- MelaFind® may not prove to be safe and effective in clinical trials;
- physicians may not receive any reimbursement from third-party payers, or the level of reimbursement may be insufficient to support widespread adoption of MelaFind®;
- we may experience delays in our development program;
- any products that are approved may not be accepted in the marketplace by physicians or patients;
- we may not have adequate financial or other resources to complete the development or to commence the commercialization of MelaFind® and we will not have adequate financial or other resources to achieve significant commercialization of MelaFind®;
- we may not be able to manufacture our products in commercial quantities or at an acceptable cost; and
- rapid technological change may make our technology and products obsolete.

We do not expect to be able to commercialize MelaFind® before the middle of 2009. If we are unable to develop, obtain regulatory approval for or successfully commercialize MelaFind®, we will be unable to generate revenue.

Risk of delay in product development.

We could encounter delays in our pivotal clinical trial or in obtaining PMA approval because of a number of factors. We will require the receipt of all information specified in our Protocol Agreement on the required number of melanomas before the pivotal clinical trial can be concluded. The MelaFind® classifier will then be utilized to evaluate the lesions acquired during the pivotal trial, and the results will be analyzed to determine if we have achieved the endpoints specified in the Protocol Agreement.

The final training of the classifier is required to be completed before the classifier is utilized as described above. Accordingly, the classifier must be ready for final training when the data from the pivotal trial become available. To date, there are over 400 melanoma lesions in the training database. The current classifier has been trained on 221 of these melanoma lesions. Our schedule for the acquisition of these lesions is based upon the projected numbers of imaging devices to be located at participating sites, the projected productivity of those sites in terms of melanomas and other lesions biopsied per month, and the projected efficiency of the study pathologists in classifying the lesion slides presented for histological analysis (the microscopic examination of excised or biopsied tissue specimens) and reporting their results. If we are unable to produce and maintain a sufficient number of imaging devices at participating sites, if the clinicians do not maintain sufficient productivity, or if the pathologists do not produce reports with sufficient efficiency, then our ability to maintain our schedule will be adversely affected, the conclusion of the pivotal trial may be delayed, and the submission of the completed PMA will be delayed.

To date, the lesion images in the training database have been acquired using first-generation hand-held devices, which also extract data from the lesions that are used by the classifiers. Pre-commercialization hand-held devices have been developed for use in the pivotal clinical trial. If the lesion data obtained with pre-commercialization devices are not consistent with data from the first generation hand-held devices, the classifier will need to be trained solely on lesions imaged using only one or the other generation of hand-held devices. Were this need to arise, significant delay and expense could be incurred, which could jeopardize our ability to complete the development of MelaFind®.

We have not received, and may never receive, FDA approval to market MelaFind®.

We do not have the necessary regulatory approvals to market MelaFind® in the US or in any foreign market. We have not filed, and currently do not have plans to file, for regulatory approval in any foreign market. We plan initially to launch MelaFind®, once approved, in the US. The regulatory approval process for MelaFind® in the US involves, among other things, successfully completing clinical trials and obtaining pre-market approval (PMA) from the FDA. We commenced the PMA application process for MelaFind® by filing a proposed outline for a Modular PMA application (a compilation of well-delineated components submitted separately) on September 30, 2002. The PMA process requires us to prove the safety and effectiveness of MelaFind® to the FDA's satisfaction. This process is expensive and uncertain, and requires detailed and comprehensive scientific and human clinical data. FDA review may take years after a PMA application is filed. The FDA may never grant approval. The FDA can delay, limit or deny approval of a PMA application for many reasons, including:

- MelaFind® may not be safe or effective to the FDA's satisfaction;
- the data from our pre-clinical studies and clinical trials may be insufficient to support approval;
- the manufacturing process or facilities we use may not meet applicable requirements; and
- changes in FDA approval policies or adoption of new regulations may require additional data.

No precedent has been established for FDA approval of a device such as MelaFind® to assist in determining the appropriateness of biopsies of suspicious pigmented skin lesions. Before submitting a PMA application, we must successfully complete a pivotal clinical trial to demonstrate that MelaFind® is safe and effective. Product development, including clinical trials, is a long, expensive and uncertain process, and is subject to delays and failure at any stage. Furthermore, the data obtained from the trial may be inadequate to support approval of a PMA application. While we obtained a Protocol Agreement from the FDA, FDA approval of a Protocol Agreement does not mean that the FDA will consider the data gathered in the trial sufficient to support approval of a PMA application, even if the trial's intended endpoints are achieved. There may be unexpected findings, particularly those that may only become evident from the larger scale of the pivotal clinical trial, as compared with the smaller scale tests done to date. For example, we initiated a clinical trial and encountered several technical problems which required us to refine the MelaFind® system. The data obtained in the pivotal trial may not be sufficient to support the anticipated indication for use, and may not support a more limited indication for use. The occurrence of unexpected findings in connection with the pivotal trial or any subsequent clinical trial required by the FDA may prevent or delay obtaining PMA approval, and may adversely affect coverage or reimbursement determinations. The FDA may also determine that additional clinical trials are necessary, in which case the PMA approval may be delayed for several months or even years while the trials are conducted and the data acquired are submitted in an amendment to the PMA. If we are unable to complete the clinical trials necessary to successfully support the MelaFind® PMA application, our ability to commercialize MelaFind®, and our business, financial condition, and results of operations would be materially adversely affected, thereby threatening our ability to continue operations. On October 12, 2006, we announced that the FDA had informed us that when submitted the MelaFind® PMA application would receive expedited review. Expedited review means that upon filing a PMA application with the FDA, it is placed at the beginning of the FDA's review queue and receives additional review resources. While the expedited review could shorten the MelaFind® FDA approval process, we can give no assurances that this will be the case.

At the end of July 2008, we completed the accrual phase of the pivotal trial; follow-up and data analysis is ongoing.

We have incurred losses for a number of years, and anticipate that we will incur continued losses for the foreseeable future.

We began operations in December 1989. At that time, we provided research services, mostly to US government agencies, on classified projects. We have financed our operations since 1999 primarily through the sale of our equity securities and have devoted substantially all of our resources to research and development relating to MelaFind®. Our net loss for the three and six months ended June 30, 2008 was approximately \$5 million and \$9.2 million, respectively, and as of June 30, 2008, we had an accumulated deficit of approximately \$52.4 million. Our research and development expenses may continue to increase in connection with our clinical trials and other development activities related to MelaFind®. If we receive PMA approval for MelaFind® from the FDA, we expect to incur significant sales and marketing expenses, which will require additional funding, and manufacturing expenses. Additionally, our general and administrative expenses have also increased due to the additional operational and regulatory responsibilities applicable to public companies. As a result, we expect to continue to incur significant and increasing operating losses for the foreseeable future. These losses, among other things, have had and will continue to have an adverse effect on our stockholders' equity.

We may be unable to complete the development and commence commercialization of MelaFind® or other products without additional funding, and we will not be able to achieve significant commercialization without additional funding.

As of June 30, 2008, we had \$11.8 million in cash and cash equivalents and \$0.9 million in marketable securities. Our operations have consumed substantial amounts of cash for each of the last eight years. On June 26, 2008, the Company filed a Form S-3 shelf registration statement for an indeterminate number of shares of common stock, warrants to purchase common stock and units consisting of a combination thereof having an aggregate initial offering price not to exceed \$40 million. The SEC declared the registration statement effective on July 7, 2008 (file# 333-151935). Management utilized this shelf registration statement to raise additional equity capital by completing a public offering of approximately \$11.9 million (\$11 million approximate net proceeds to the Company) on July 31, 2008. The proceeds from this offering combined with existing cash balances will allow the Company to fund anticipated levels of operations into 2010. The Company will require additional funds to achieve significant commercialization of MelaFind®. However, there can be no assurances that the Company will be able to raise additional capital in the future. Additional funds may not become available on acceptable terms, and there can be no assurance that any additional funding that the Company does obtain will be sufficient to meet the Company's needs in the long term.

Any additional financing may be dilutive to stockholders, or may require us to grant a lender a security interest in our assets. The amount of funding we will need will depend on many factors, including:

- the schedule, costs, and results of our clinical trials;
- the success of our research and development efforts;
- the costs and timing of regulatory approval;
- reimbursement amounts for the use of MelaFind® that we are able to obtain from Medicare and third-party payers, or the amount of direct payments we are able to obtain from patients and/or physicians utilizing MelaFind®;
- the cost of commercialization activities, including product marketing and building a domestic direct sales force;
- the emergence of competing or complementary technological developments;
- the costs of filing, prosecuting, defending and enforcing any patent claims and other rights, including litigation costs and the results of such litigation;
- the costs involved in defending any patent infringement actions brought against us by third parties; and

our ability to establish and maintain any collaborative, licensing or other arrangements, and the terms and timing of any such arrangements.

If we are unable to obtain adequate financing on a timely basis, we may be required to significantly curtail or cease one or more of our development and marketing programs. We could be required to seek funds through arrangements with collaborators or others that may require us to relinquish rights to some of our technologies, product candidates or products that we would otherwise pursue on our own. We also may have to reduce marketing, customer support and other resources devoted to our products. If we raise additional funds by issuing equity securities, our then-existing stockholders will experience ownership dilution, could experience declines in our share price and the terms of any new equity securities may have preferences over our common stock.

MelaFind® may not be commercially viable if we fail to obtain an adequate level of reimbursement by Medicare and other third party payers. The markets for MelaFind® may also be limited by the indications for which its use may be reimbursed.

The availability of medical insurance coverage and reimbursement for newly approved medical devices is uncertain. In the US, physicians and other healthcare providers performing biopsies for suspicious skin lesions are generally reimbursed for all or part of the cost of the diagnosis and biopsy by Medicare, Medicaid, or other third-party payers.

The long-term commercial success of MelaFind® in both domestic and international markets will significantly depend on whether third-party coverage and reimbursement are available for services involving MelaFind®. Medicare, Medicaid, health maintenance organizations and other third-party payers are increasingly attempting to contain healthcare costs by limiting both the scope of coverage and the level of reimbursement of new medical devices, and as a result, they may not cover or provide adequate payment for the use of MelaFind®. In order to obtain satisfactory reimbursement arrangements, we may have to agree to a fee or sales price lower than the fee or sales price we might otherwise charge. Even if Medicare and other third-party payers decide to cover procedures involving our product, we cannot be certain that the reimbursement levels will be adequate. Accordingly, even if MelaFind® or future products we develop are approved for commercial sale, unless government and other third-party payers provide adequate coverage and reimbursement for our products, some physicians may be discouraged from using them, and our sales would suffer.

Medicare reimburses for medical devices in a variety of ways, depending on where and how the device is used. However, Medicare only provides reimbursement if the Centers for Medicare and Medicaid Services ("CMS") determines that the device should be covered and that the use of the device is consistent with the coverage criteria. A coverage determination can be made at the local level by the Medicare administrative contractor (formerly called carriers and fiscal intermediaries), a private contractor that processes and pays claims on behalf of CMS for the geographic area where the services were rendered, or at the national level by CMS through a national coverage determination. There are statutory provisions intended to facilitate coverage determinations for new technologies, but it is unclear how these provisions will be implemented. Coverage presupposes that the device has been cleared or approved by the FDA and further, that the coverage will be no broader than the approved intended uses of the device as approved or cleared by the FDA, but coverage can be narrower. A coverage determination may be so limited that relatively few patients will qualify for a covered use of the device. Should a very narrow coverage determination be made for MelaFind®, it may undermine the commercial viability of MelaFind®.

Obtaining a coverage determination, whether local or national, is a time-consuming, expensive and highly uncertain proposition, especially for a new technology, and inconsistent local determinations are possible. On average, according to an industry report, Medicare coverage determinations for medical devices lag 15 months to five years or more behind FDA approval for that device. The Medicare statutory framework is also subject to administrative rulings, interpretations and discretion that affect the amount and timing of reimbursement made under Medicare. Medicaid coverage determinations and reimbursement levels are determined on a state by state basis, because Medicaid, unlike Medicare, is administered by the states under a state plan filed with the Secretary of the US Department of Health and Human Services (HHS). Medicaid generally reimburses at lower levels than Medicare. Moreover, Medicaid programs and private insurers are frequently influenced by Medicare coverage determinations.

Our stock price is likely to be volatile, meaning purchasers of our common stock could incur substantial losses.

Our stock price is likely to be volatile. Between October 28, 2005 (the date of our initial public offering) and June 30, 2008, our stock price has ranged from \$3.84 to \$9.99 per share. The stock market in general and the market for medical technology companies in particular have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. The following factors, in addition to other risk factors described in this section and general market and economic conditions, may have a significant impact on the market price of our common stock:

- results of our research and development efforts and our clinical trials;
- the timing of regulatory approval for our products;
- failure of any of our products, if approved, to achieve commercial success;
- the announcement of new products or product enhancements by us or our competitors;
- regulatory developments in the US and foreign countries;
- ability to manufacture our products to commercial standards;
- developments concerning our clinical collaborators, suppliers or marketing partners;
- changes in financial estimates or recommendations by securities analysts;
- public concern over our products;
- developments or disputes concerning patents or other intellectual property rights;
- product liability claims and litigation against us or our competitors;
- the departure of key personnel;
- the strength of our balance sheet;
- variations in our financial results or those of companies that are perceived to be similar to us;
- changes in the structure of and third-party reimbursement in the US and other countries;
- changes in accounting principles or practices;
- general economic, industry and market conditions; and
- future sales of our common stock.

A decline in the market price of our common stock could cause you to lose some or all of your investment and may adversely impact our ability to attract and retain employees and raise capital. In addition, stockholders may initiate securities class action lawsuits if the market price of our stock drops significantly. Whether or not meritorious, litigation brought against us could result in substantial costs and could divert the time and attention of our management. Our insurance to cover claims of this sort, if brought, may not be adequate.

If our directors, executive officers, and principal stockholders choose to act together, they may have the ability to influence all matters submitted to stockholders for approval.

As of June 30, 2008, our directors, executive officers, holders of more than 5% of our common stock, and their affiliates in the aggregate, beneficially owned approximately 41% of our outstanding common stock. As a result, these stockholders, subject to any fiduciary duties owed to our other stockholders under Delaware law, could be able to exercise a controlling influence over matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions, and will have significant control over our management and policies. Some of these persons or entities may have interests that are different from yours. For example, these stockholders may support proposals and actions with which you may disagree or which are not in your interests. The concentration of ownership could delay or prevent a change in control of our company or otherwise discourage a potential acquirer from attempting to obtain control of our company, which in turn could reduce the price of our common stock. In addition, these stockholders, some of whom have representatives sitting on our Board of Directors, could use their voting influence to maintain our existing management and directors in office, delay or prevent changes of control of our company, or support or reject other management and board proposals that are subject to stockholder approval, such as amendments to our employee stock plans and approvals of significant financing transactions.

We have limited manufacturing capabilities and manufacturing personnel, and if our manufacturing capabilities are insufficient to produce an adequate supply of MelaFind®, our growth could be limited and our business could be harmed.

We have not yet completed the development and testing of MelaFind®, and as a result have no experience in manufacturing MelaFind® for commercial distribution. We currently have limited resources, facilities and experience to commercially manufacture MelaFind®. In order to produce MelaFind® in the quantities we anticipate to meet market demand, we will need to increase our third-party manufacturing capacity. There are technical challenges to increasing manufacturing capacity, including equipment design and automation, material procurement, problems with production yields, and quality control and assurance. Developing commercial-scale manufacturing facilities that meet FDA requirements would require the investment of substantial additional funds and the hiring and retaining of additional management and technical personnel who have the necessary manufacturing experience.

We currently plan to outsource production to contract manufacturers. Any difficulties in the ability of third-party manufacturers to supply devices of the quality, at the times, and in the quantities we need, could have a material adverse effect on our business, financial condition, and results of operations. Similarly, when we enter into contracts for the third-party manufacture of our devices, any revenue received will depend on the skills and efforts of others, and we do not know whether these efforts will be successful. Manufacturers often encounter difficulties in scaling up production of new products, including problems involving product yields, controlling and anticipating product costs, quality control and assurance, component supply, and shortages of qualified personnel. We cannot assure you that the third-party contract manufacturers with whom we have developed or are developing relationships will have or sustain the ability to produce the quantities of MelaFind® needed for development or commercial sales, or will be willing to do so at prices that allow MelaFind® to compete successfully in the market.

Assuming that MelaFind® receives regulatory approval, if we are unable to manufacture or obtain a sufficient supply of product, maintain control over expenses, or otherwise adapt to anticipated growth, or if we underestimate growth, we may not have the capability to satisfy market demand, and our business will suffer. Additionally, if MelaFind® receives regulatory approval and we then need to make manufacturing changes, we may need to obtain additional approval for these changes.

MelaFind® is complex and may contain undetected design defects and errors when first introduced, or errors that may be introduced when enhancements are released. Such defects and errors may occur despite our testing, and may not be discovered until after our devices have been shipped to and used by our customers. The existence of these defects and errors could result in costly repairs, returns of devices,

diversion of development resources and damage to our reputation in the marketplace. Any of these conditions could have a material adverse impact on our business, financial condition and results of operations. In addition, when we contract with third-party manufacturers for the production of our products, these manufacturers may inadvertently produce devices that vary from devices we have produced in unpredictable ways that cause adverse consequences.

We will not be able to sell MelaFind® unless and until its design is verified and validated in accordance with current good manufacturing practices as set forth in the US medical device Quality System Regulation.

We are in the process, but have not yet successfully completed, all the steps necessary to verify and validate the design of the MelaFind® system that are required to be performed prior to commercialization. If we are delayed or unable to complete verification and validation successfully, we will not be able to sell MelaFind®, and we will not be able to meet our plans for the commercialization of MelaFind® in the middle of 2009. Assuming that regulatory approval of MelaFind® is granted, the approval may be subject to limitations on the indicated uses for which the product may be marketed, or may contain requirements for costly post-marketing testing and surveillance to monitor the safety or effectiveness of the device. Later discovery of previously unknown problems with MelaFind®, including manufacturing problems, or failure to comply with regulatory requirements such as the FDA Quality System Regulation ("QSR"), may result in restrictions on MelaFind® or its manufacturing processes, withdrawal of MelaFind® from the market, patient or physician notification, voluntary or mandatory recalls, fines, withdrawal of regulatory approvals, refusal to approve pending applications or supplements to approved applications, refusal to permit the import or export of our products, product seizures, injunctions or the imposition of civil or criminal penalties. Should any of these enforcement actions occur, our business, financial condition and results of operations could be materially and adversely affected.

Assuming that MelaFind® is approved by regulatory authorities, if we or our suppliers fail to comply with ongoing regulatory requirements, or if we experience unanticipated problems with MelaFind®, it could be subject to restrictions or withdrawal from the market.

Any product for which we obtain marketing approval, along with the manufacturing processes, post-approval clinical data and promotional activities for such product, will be subject to continuous review and periodic inspections by the FDA and other regulatory bodies. In particular, we and our suppliers are required to comply with the QSR and other regulations which cover the methods and documentation of the design, testing, production, control, quality assurance, labeling, packaging, storage, promotion, distribution, and shipping of MelaFind®, and with record keeping practices. We also will be subject to ongoing FDA requirements, including required submissions of safety and other post-market information and reports and registration and listing requirements. To the extent that we contract with third parties to manufacture some of our products, our manufacturers will be required to adhere to current Good Manufacturing Practices ("cGMP") requirements enforced by the FDA as part of QSR, or similar regulations required by regulatory agencies in other countries. The manufacturing facilities of our contract manufacturers must be inspected or must have been inspected, and must be in full compliance with cGMP requirements before approval for marketing. The FDA enforces the QSR and other regulatory requirements through unannounced inspections. We have not yet been inspected by the FDA for MelaFind® and will have to complete such an inspection successfully before we ship any commercial MelaFind® devices. However, we were previously inspected in connection with DIFOTI®, which we have discontinued for business reasons, and were cited for failures to comply fully with QSR mandated procedures. The FDA inspectors observed deficiencies that were documented on FDA Form 483 that was issued to us following the inspection. The DIFOTI® inspectional findings were discussed in a subsequent meeting with the FDA on April 28, 2005. An onsite consultant was hired to address these deficiencies and structure a compliant Quality System for MelaFind®. Throughout 2006 we worked to address the deficiencies noted in accordance with the agreement reached with the FDA. On May 18, 2006, the FDA re-audited the Company's facility for a follow-up inspection and audited our revised Quality System. No non-conformities or negative observations were reported to the Company. On December 5, 2006 we received correspondence from the FDA that reported "that all previous observations reported on the FDA-483 were corrected, and this firm no longer manufactures or distributes the DIFOTI® 2.0 dental imaging system." A second follow-up inspection was conducted in May 2008; no deficiencies were cited by the FDA field inspector.

Our director of quality assurance and regulatory affairs continues to work with several regulatory consultants to address the inspectional findings, particularly as they relate to current MelaFind® design development and ultimately MelaFind® commercial manufacturing. If we are not successful in convincing the FDA that we are capable of addressing any concerns it might have relative to MelaFind®, or in our efforts to address any MelaFind® deficiencies that might develop, we could be subject to additional FDA action of a type described below, which could negatively affect our ability to commercialize MelaFind®. There can be no assurance that the future interpretations of legal requirements made by the FDA or other regulatory bodies with possible retroactive effect, or the adoption of new requirements or policies, will not adversely affect us. We may be slow to adapt, or may not be able to adapt, to these changes or new requirements. Failure by us or one of our suppliers to comply with statutes and regulations administered by the FDA and other regulatory bodies, or failure to take adequate response to any observations, could result in, among other things, any of the following actions:

- warning letters;
- fines and civil penalties;
- unanticipated expenditures;
- delays in approving or refusal to approve MelaFind®;
- withdrawal of approval by the FDA or other regulatory bodies;
- product recall or seizure;
- interruption of production;
- operating restrictions;
- · injunctions; and
- criminal prosecution.

If any of these actions were to occur, it would harm our reputation and cause our product sales and profitability to suffer.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

On July 31, 2007, the Company entered into a securities purchase agreement and a registration rights agreement with certain accredited investors for the private placement of 2,000,178 shares of the Company's common stock and warrants to purchase up to 500,041 shares of the Company's common stock for aggregate gross proceeds of approximately \$11.5 million and net proceeds of approximately \$10.7 million. This transaction closed on August 3, 2007.

The proceeds from this financing are being used for general corporate purposes including research and development activities.

Item 3. Defaults Upon Senior Securities.

Not applicable.

Item 4. Submission of Matters to a Vote of Security Holders.

The 2008 Annual Meeting of Stockholders of the Company was held on May 16, 2008.

Our stockholders voted on proposals to elect directors and ratify the selection by the audit committee of our Board of Directors of Eisner LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2008.

All nominees for election to the Board as Directors were elected to serve until the 2009 Annual Meeting of Stockholders and until their respective successors are elected and qualified, or until such director's earlier death, resignation or removal. The stockholders also ratified the selection of the independent registered public accounting firm by the audit committee of our Board of Directors. The number of votes cast for, against or withheld and the number of abstentions with respect to each proposal is set forth below:

Proposal 1		Shares For	Shares Withheld
Election of Directors			
Joseph V. Gulfo, MD		11,244,383	112,062
Breaux Castleman		11,086,289	270,156
Sidney Braginsky		11,241,273	115,172
Gorge C. Chryssis		11,244,383	112,062
Martin D. Cleary		11,244,383	112,062
Dan W. Lufkin		11,243,383	113,062
Gerald Wagner, Ph.D.		11,244,383	112,062
Proposal 2 Ratification of Eisner LLP	Shares For 11,329,117	Shares Against 3,391	Shares Abstaining 23,936

Item 5. Other Information

- (a) Not applicable
- (b) Not applicable

Item 6. Exhibits

Exhibit Number	Exhibit Title
3.1	Fourth Amended and Restated Certificate of Incorporation of the Registrant.(1)
3.2	Third Amended and Restated Bylaws of the Registrant.(2)
4.1	Specimen Stock Certificate.(2)
4.2	Second Amended and Restated Investor's Rights Agreement dated as of October 26, 2004 by and among the Registrant and the parties listed therein.(3)
4.3	Form of Warrant.(7)
4.4	Form of Warrant.(13)
10.1*	Form of Indemnification Agreement for directors and executive officers.(2)
10.2*	1996 Stock Option Plan.(3)
10.3*	2003 Stock Incentive Plan, as amended.(3)
10.4*	2005 Stock Incentive Plan.(2)
10.5*	Employment Agreement dated as of January 5, 2004 between the Registrant and Joseph V. Gulfo.(3)
10.6	Consulting Agreement dated as of May 31, 2005 between the Registrant and Marek Elbaum.(3)
10.7	Lease Agreement dated as of December 16, 1998, by and between the Registrant and Bridge Street Properties LLC, for office space located at One Bridge Street, Irvington, New York.(3)
10.8	First Amendment to the Lease Agreement dated as of May 17, 2001 by and between the Registrant and Bridge Street Properties LLC.(3)
10.9	Second Amendment to the Lease Agreement dated as of June 19, 2003 by and between the Registrant and Bridge Street Properties LLC.(3)
10.10	Lease Agreement dated as of November 23, 2004, by and between the Registrant and Bridge Street Properties LLC, for office space located at 3 West Main Street, Irvington, New York.(3)
10.11*	Consulting Agreement dated as of June 1, 2005 between the Registrant and Gerald Wagner Consulting, LLC.(1)
10.12*	Consulting Agreement dated as of June 20, 2003 between the Registrant and Breaux Castleman, as amended.(1)
10.13	Consulting Agreement dated as of June 1, 2005 between the Registrant and Robert Friedman, M.D.(1)
10.14	Task Order Agreement dated as of July 13, 2005 between the Registrant and Battelle Memorial Institute.(2)
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Exhibit Number	Exhibit Title
10.15	Third Amendment dated as of June 6, 2005, by and between the Registrant and Bridge Street Properties LLC, for office space located at 1 Bridge Street, Irvington, New York.(1)
10.16	Production Agreement between the Registrant and ASKION GmbH dated as of January 25, 2006.(4)
10.17*	Amended and Restated Consulting Agreement effective as of April 1, 2006 between the Registrant and Gerald Wagner Consulting LLC.(11)
10.18*	Resignation Agreement, dated April 24, 2006, between the Registrant and Karen Krumeich.(5)
10.19*	Employment Offer Letter, dated April 24, 2006, between the Registrant and Richard I. Steinhart.(5)
10.20*	Employment Offer Letter, dated May 30, 2006, between the Registrant and Christiano S. Butler.(6)
10.21	Securities Purchase Agreement among the Registrant and the purchasers identified on the signature pages thereto, dated as of October 31, 2006.(8)
10.22	Securities Purchase Agreement among the Registrant and the purchasers identified on the signature pages thereto, dated as of October 31, 2006.(8)
10.23	Registration Rights Agreement among the Registrant and the purchasers identified on the signature pages thereto, dated as of October 31, 2006.(8)
10.24	Placement Agency Agreement by and between the Registrant and Jefferies & Company, Inc., dated as of October 31, 2006.(7)
10.25	Licensing Agreement between the Registrant and KaVo Dental GmbH, dated as of December 5, 2006.(9)
10.26*	Amendment No. 1 to Amended and Restated Consulting Agreement dated as of January 30, 2007 by and among the Registrant, Gerald Wagner and Gerald Wagner Consulting LLC. (10)
10.27	Research and Feasibility Agreement between the Registrant and L'Oreal S.A. dated as of March 26, 2007. (12)
10.28	Securities Purchase Agreement among the Registrant and the purchasers identified on the signature pages thereto, dated as of July 31, 2007.(13)
10.29	Registration Rights Agreement among the Registrant and the purchasers identified on the signature pages thereto, dated as of July 31, 2007.(13)
10.30	Fifth Amendment dated as of August 24, 2007, by and between the Registrant and Bridge Street Commercial, LLC, for office space located at 1 Bridge Street, Irvington, New York.(1)
10.31*	Employment Offer Letter, dated February 11, 2008, between the Registrant and Tina Cheng-Avery.(14)
10.32*	Separation Agreement dated May 1, 2008, between the Registrant and Jon I. Klippel. (15)
10.33	Form of Subscription Agreement between the Registrant and certain investors.(16)
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Exhib Numb	
31.1#	Certification of Chief Executive Officer Pursuant to Rule 13a-14(a) or Rule 15d-14(a) under the Securities Exchange Act of 1934, as amended.
31.2#	Eertification of Chief Financial Officer Pursuant to Rule 13a-14(a) or Rule 15d-14(a) under the Securities Exchange Act of 1934, as amended.
32.1#	Exertification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
*	Indicates management compensatory plan, contract or arrangement
(1)	Incorporated by reference to the Registrant's Registration Statement on Form S-1, as amended (File No. 333-125517), as filed on July 15, 2005.
(2)	Incorporated by reference to the Registrant's Registration Statement on Form S-1, as amended (File No. 333-125517), as filed on August 8, 2005.
(3)	Incorporated by reference to the Registrant's Registration Statement on Form S-1, as amended (File No. 333-125517), as filed on June 3, 2005.
(4)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on January 31, 2006.
(5)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on April 27, 2006.
(6)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on June 2, 2006.
(7)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on November 1, 2006.
(8)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on November 8, 2006.
(9)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on December 11, 2006.
(10)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on January 31, 2007.
(11)	Incorporated by reference to the Registrant's Annual Report on Form 10-K filed on March 29, 2006.
(12)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on March 28, 2007.
(13)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on August 1, 2007.
(14)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on February 12, 2008.
(15)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on May 1, 2008.
(16)	Incorporated by reference to the Registrant's Current Report on Form 8-K filed on July 31, 2008
#	Filed herewith.
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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

ELECTRO-OPTICAL SCIENCES, INC.

By: /s/ Richard I. Steinhart

Richard I. Steinhart
Vice President and Chief Financial Officer (Principal Accounting and Financial Officer)

Date: August 8, 2008

EXHIBIT INDEX

Exhibit No.	Description
31.1	Certification by the Chief Executive Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) under the Securities Exchange Act of 1934, as amended.
31.2	Certification by the Chief Financial Officer pursuant to Rule 13a-14(a) or Rule 15d-14(a) under the Securities Exchange Act of 1934, as amended.
32.1	Certification Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

CERTIFICATION BY THE CHIEF EXECUTIVE OFFICER PURSUANT TO RULE 13A-14(A) or RULE 15D-14(A) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS AMENDED

I, Joseph V. Gulfo, certify that:

- 1. I have reviewed this report on Form 10-Q of Electro-Optical Sciences, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors (or persons performing the equivalent functions):
 - a) all significant deficiencies and material weaknesses in the design or operations of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) any fraud whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: August 8, 2008 /s/ Joseph V. Gulfo, M.D. Joseph V. Gulfo, M.D. President and Chief Executive Officer (Principal Executive Officer)

CERTIFICATION BY THE CHIEF FINANCIAL OFFICER PURSUANT TO RULE 13A-14(A) or RULE 15D-14(A) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS AMENDED

I, Richard I. Steinhart, certify that:

- 1. I have reviewed this report on Form 10-Q of Electro-Optical Sciences, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors (or persons performing the equivalent functions):
 - a) all significant deficiencies and material weaknesses in the design or operations of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - any fraud whether or not material, that involves management or other employees who have a significant role in the registrant's internal control
 over financial reporting.

Date: August 8, 2008
/s/ Richard I. Steinhart
Richard I. Steinhart
Vice President and Chief Financial Officer
(Principal Accounting and Financial Officer)

ELECTRO-OPTICAL SCIENCES, INC. CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

Each of the undersigned officers of Electro-Optical Sciences, Inc. (the "Company") hereby certifies to his knowledge that the Company's quarterly report on Form 10-Q for the period ended June 30, 2008 (the "Report"), as filed with the Securities and Exchange Commission on the date hereof, fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, as amended, and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Joseph V. Gulfo Joseph V. Gulfo President and Chief Executive Officer (Principal Executive Officer) August 8, 2008

/s/ Richard I. Steinhart Richard I. Steinhart Vice President & Chief Financial Officer (Principal Accounting and Financial Officer) August 8, 2008

* A signed original of this written statement required by Section 906 of the Sarbanes-Oxley Act of 2002 has been provided to Electro-Optical Sciences, Inc. and will be retained by Electro-Optical Sciences, Inc. and furnished to the Securities and Exchange Commission or its staff upon request. This written statement accompanies the Form 10-Q to which it relates, is not deemed filed with the Securities and Exchange Commission, and will not be incorporated by reference into any filing of Electro-Optical Sciences, Inc. under the Securities Act of 1933 or the Securities Exchange Act of 1934, irrespective of any general incorporation language contained in such filing.