

IDERA PHARMACEUTICALS, INC.

Form 10-Q

November 06, 2008

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**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 September 30, 2008,**

**or**

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

**For transition period from \_\_\_\_\_.**

**Commission File Number: 001-31918  
IDERA PHARMACEUTICALS, INC.**

*(Exact name of registrant as specified in its charter)*

**Delaware**

**04-3072298**

*(State or other jurisdiction of incorporation or  
organization)*

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

**167 Sidney Street  
Cambridge, Massachusetts 02139**  
*(Address of principal executive offices)*

**(617) 679-5500**

*(Registrant's telephone number, including area code)*

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  No   
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  Accelerated filer  Non-accelerated filer  Smaller reporting company   
(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  No

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date.

**Common Stock, par value \$.001 per share**

**23,365,128**

Class

Outstanding as of October 31, 2008



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**FORWARD-LOOKING STATEMENTS**

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements, other than statements of historical fact, included or incorporated in this report regarding our strategy, future operations, collaborations, intellectual property, financial position, future revenues, projected costs, prospects, plans, and objectives of management are forward-looking statements. The words believes, anticipates, estimates, plans, expects, intends, may, could, should, potential, likely, projects, continue, will, and wo expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We cannot guarantee that we actually will achieve the plans, intentions or expectations disclosed in our forward-looking statements and you should not place undue reliance on our forward-looking statements. There are a number of important factors that could cause our actual results to differ materially from those indicated or implied by forward-looking statements. These important factors include those set forth below under Part II, Item 1A Risk Factors. These factors and the other cautionary statements made in this Quarterly Report on Form 10-Q should be read as being applicable to all related forward-looking statements whenever they appear in this Quarterly Report on Form 10-Q. In addition, any forward-looking statements represent our estimates only as of the date that this Quarterly Report on Form 10-Q is filed with the SEC and should not be relied upon as representing our estimates as of any subsequent date. We do not assume any obligation to update any forward-looking statements. We disclaim any intention or obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

**Table of Contents****PART I FINANCIAL INFORMATION****ITEM 1. FINANCIAL STATEMENTS.**

**IDERA PHARMACEUTICALS, INC.  
CONDENSED BALANCE SHEETS  
(UNAUDITED)**

<b>(in thousands, except per share amounts)</b>	<b>September 30, 2008</b>	<b>December 31, 2007</b>
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$ 38,518	\$ 12,588
Short-term investments	19,365	11,155
Receivables	1,371	293
Prepaid expenses and other current assets	1,161	991
Total current assets	60,415	25,027
Long-term investments	1,231	
Property and equipment, net	1,925	1,964
Non-current portion of prepaid expenses	104	104
Restricted cash	630	619
Total assets	\$ 64,305	\$ 27,714
 <b>LIABILITIES AND STOCKHOLDERS EQUITY</b>		
Current liabilities:		
Accounts payable	\$ 785	\$ 1,177
Accrued expenses	2,475	1,745
Current portion of capital lease	18	20
Current portion of note payable		266
Current portion of deferred revenue	22,185	5,911
Total current liabilities	25,463	9,119
Capital lease obligation, net of current portion	36	50
Note payable, net of current portion		877
Deferred revenue, net of current portion	17,711	9,874
Other liabilities	158	75
Total liabilities	43,368	19,995
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, \$0.01 par value per share, Authorized 5,000 shares		
Series A convertible preferred stock, Designated 1,500 shares, Issued and outstanding 1 share at September 30, 2008 and December 31, 2007		

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Common stock, \$0.001 par value per share, Authorized 70,000 shares Issued and outstanding 23,365 and 21,569 shares at September 30, 2008 and December 31, 2007, respectively	23	22
Additional paid-in capital	362,841	350,423
Accumulated deficit	(341,589)	(342,734)
Accumulated other comprehensive (loss) income	(338)	8
Total stockholders' equity	20,937	7,719
Total liabilities and stockholders' equity	\$ 64,305	\$ 27,714

**The accompanying notes are an integral part of these financial statements.**

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**IDERA PHARMACEUTICALS, INC.**  
**CONDENSED STATEMENTS OF OPERATIONS**  
**(UNAUDITED)**

<b>(in thousands, except per share amounts)</b>	<b>Three Months Ended</b>		<b>Nine Months Ended</b>	
	<b>September 30,</b>		<b>September 30,</b>	
	<b>2008</b>	<b>2007</b>	<b>2008</b>	<b>2007</b>
Alliance revenue	\$ 7,498	\$ 1,970	\$ 20,135	\$ 5,748
Operating expenses:				
Research and development	3,580	3,479	11,866	9,288
General and administrative	2,304	2,033	7,952	6,369
Total operating expenses	5,884	5,512	19,818	15,657
Income (loss) from operations	1,614	(3,542)	317	(9,909)
Other income (expense):				
Investment income, net	369	416	1,185	1,322
Interest expense	(3)	(40)	(90)	(114)
Foreign currency exchange loss			(267)	
Net income (loss)	\$ 1,980	\$ (3,166)	\$ 1,145	\$ (8,701)
Income (loss) per share (Note 15):				
Basic	\$ 0.09	\$ (0.15)	\$ 0.05	\$ (0.41)
Diluted	\$ 0.08	\$ (0.15)	\$ 0.04	\$ (0.41)
Shares used in computing basic income (loss) per common share	23,022	21,346	22,428	21,132
Shares used in computing diluted income (loss) per common share	25,779	21,346	25,538	21,132

**The accompanying notes are an integral part of these financial statements.**



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**IDERA PHARMACEUTICALS, INC.**  
**CONDENSED STATEMENTS OF CASH FLOWS**  
**(UNAUDITED)**

<b>(in thousands)</b>	<b>Nine Months Ended September 30,</b>	
	<b>2008</b>	<b>2007</b>
<b>Cash Flows From Operating Activities:</b>		
Net income (loss)	\$ 1,145	\$ (8,701)
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities -		
Loss of disposal of property and equipment	2	6
Stock-based compensation	1,955	1,176
Non-employee stock options	712	258
Depreciation and amortization	444	252
Issuance of common stock for services rendered	17	35
Changes in operating assets and liabilities -		
Accounts receivable	(1,078)	12
Prepaid expenses and other current assets	(170)	(143)
Accounts payable and accrued expenses	421	420
Deferred revenue	24,111	(3,848)
Net cash provided by (used in) operating activities	27,559	(10,533)
<b>Cash Flows From Investing Activities:</b>		
Purchase of available-for-sale securities	(22,985)	(49,752)
Proceeds from sale of available-for-sale securities		36,215
Proceeds from maturity of available-for-sale securities	13,145	11,105
Increase in restricted cash	(11)	
Purchase of property and equipment	(355)	(1,455)
Net cash used in investing activities	(10,206)	(3,887)
<b>Cash Flow From Financing Activities:</b>		
Proceeds from exercise of common stock options and warrants and employee stock purchases	9,831	586
Net proceeds from issuance of note payable		1,278
Payments on note payable	(1,143)	(67)
Purchase of treasury stock	(95)	
Payments on capital lease	(16)	(10)
Net cash provided by financing activities	8,577	1,787
Net increase (decrease) in cash and cash equivalents	25,930	(12,633)
Cash and cash equivalents, beginning of period	12,588	24,596
Cash and cash equivalents, end of period	\$ 38,518	\$ 11,963

**Supplemental disclosure of cash flow information:**

Cash paid for interest	\$	90	\$	114
Cash paid for income taxes	\$	50	\$	
<b>Supplemental disclosure of non-cash financing and investing activities:</b>				
Conversion of 4% convertible subordinated notes into common stock	\$		\$	5,033

**The accompanying notes are an integral part of these financial statements.**

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**IDERA PHARMACEUTICALS, INC.**  
**NOTES TO CONDENSED FINANCIAL STATEMENTS**  
**SEPTEMBER 30, 2008**  
**(UNAUDITED)**

(1) (a) Organization

Idera Pharmaceuticals, Inc. ( Idera or the Company ) is a biotechnology company engaged in the discovery and development of DNA- and RNA-based drug candidates targeted to Toll-Like Receptors, or TLRs, to treat infectious diseases, autoimmune diseases, cancer, and asthma and allergies, and for use as vaccine adjuvants. Drug candidates are compounds that the Company is developing and have not been approved for any commercial use. TLRs are specific receptors present in immune system cells that recognize the DNA or RNA of pathogens such as bacteria or viruses and initiate an immune response. Relying on its expertise in DNA and RNA chemistry, the Company has designed and created proprietary TLR agonists and antagonists to modulate immune responses. A TLR agonist is a compound that stimulates an immune response through the targeted TLR. A TLR antagonist is a compound that blocks activation of an immune response through the targeted TLR.

The Company is focused on developing TLR-targeted compounds for the potential treatment of infectious diseases, autoimmune diseases, and cancer. IMO-2125, a TLR9 agonist, is the Company's lead drug candidate for infectious diseases. At present, a Phase 1 clinical trial of IMO-2125 is underway in patients with chronic hepatitis C virus infection who have not responded to current standard of care therapy. The Company's infectious disease program also includes evaluation of RNA-based compounds that act as agonists of TLR7 and TLR8. The Company has evaluated some of its TLR7 and TLR8 agonist compounds in preclinical studies in human cell-based assays and *in vivo* in non-human primates and intends to further evaluate these compounds in preclinical models of infectious disease. In the Company's autoimmune disease program, it has identified DNA-based compounds that act as antagonists of TLR7 and TLR9. The Company has evaluated some of its TLR antagonist compounds in various preclinical studies, including in mouse models of lupus, rheumatoid arthritis, multiple sclerosis, colitis, and psoriasis, and selected IMO-3100, a TLR antagonist, as a lead compound for preclinical development in its autoimmune disease program. The Company's cancer treatment research program is focused on potential applications of TLR7 and TLR8 agonists. The Company intends to further evaluate these compounds in preclinical models of cancer.

In addition, Idera is collaborating with three pharmaceutical companies to advance the Company's TLR-targeted compounds in multiple disease areas. The Company is collaborating with Merck KGaA for cancer treatment excluding cancer vaccines, with Merck & Co. Inc., for vaccine adjuvants, and with Novartis International Pharmaceutical, Ltd., or Novartis, for treatment of asthma and allergies. Merck KGaA and Merck & Co. are not related.

The Company has incurred operating losses in all fiscal years except 2002 and in certain interim periods and had an accumulated deficit of \$341.6 million at September 30, 2008. The Company may incur substantial operating losses in future periods. The Company does not expect to generate significant funds internally until it successfully completes development and obtains marketing approval for products, either alone or in collaborations with third parties, which the Company expects will take a number of years. In order to commercialize its therapeutic products, the Company needs to address a number of technological challenges and to comply with comprehensive regulatory requirements.

(1) (b) Recently Adopted Accounting Pronouncements

In July 2007, the Emerging Issues Task Force ( EITF ) issued EITF 07-3, *Accounting for Nonrefundable Advance Payments for Goods or Services to be Used in Future Research and Development Activities* ( EITF 07-3 ). EITF 07-3 clarifies the accounting for nonrefundable advance payments for goods or services that will be used or rendered for research and development activities. EITF 07-3 states that such payments should be capitalized and recognized as an expense as the goods are delivered or the related services are performed. If an entity does not expect the goods to be delivered or the services rendered, the capitalized advance payment should be charged to expense. The Company adopted EITF 07-3 on January 1, 2008. The adoption of EITF 07-3 decreased research and development expense and increased net income by \$300,000 during the three and nine months ending September 30, 2008. The adoption of EITF 07-3 increased basic earnings per share by \$0.02 per share and \$0.01 per share, respectively, during the three and nine months ended September 30, 2008 and increased diluted earnings per share by \$0.01 during both the three

and nine month periods ended September 30, 2008.

In December 2007, the EITF issued EITF 07-1, *Accounting for Collaborative Arrangements Related to the Development and Commercialization of Intellectual Property* ( EITF 07-1 ). EITF 07-1 defines collaborative arrangements and establishes reporting and disclosure requirements for transactions between participants in a collaborative arrangement and between participants in the arrangement and third parties. EITF 07-1 is effective for fiscal years beginning after December 15, 2008. The Company is currently evaluating the effect of EITF 07-1 on its financial statements.

**Table of Contents****(2) Unaudited Interim Financial Statements**

The accompanying unaudited financial statements included herein have been prepared by the Company in accordance with generally accepted accounting principles for interim financial information and pursuant to the rules and regulations of the Securities and Exchange Commission. Accordingly, certain information and footnote disclosures normally included in financial statements prepared in accordance with United States generally accepted accounting principles have been condensed or omitted pursuant to such rules and regulations. In the opinion of management, all adjustments, consisting of normal recurring adjustments, considered necessary for a fair presentation of interim period results have been included. The Company believes that its disclosures are adequate to make the information presented not misleading. Interim results for the three and nine months ended September 30, 2008 are not necessarily indicative of results that may be expected for the year ended December 31, 2008. For further information, refer to the financial statements and footnotes thereto included in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2007, which was filed with the Securities and Exchange Commission on March 11, 2008.

**(3) Reclassifications**

Certain amounts in the prior year's financial statements have been reclassified to be consistent with the current year's presentation.

**(4) (a) Cash Equivalents and Investments**

The Company considers all highly liquid investments with maturities of 90 days or less when purchased to be cash equivalents. Cash and cash equivalents at September 30, 2008 and December 31, 2007 consisted of cash and money market funds.

The Company accounts for investments in accordance with Statement of Financial Accounting Standards (SFAS) No. 115, *Accounting for Certain Investments in Debt and Equity Securities* (SFAS No. 115). Management determines the appropriate classification of marketable securities at the time of purchase. In accordance with SFAS No. 115, investments that the Company does not have the positive intent to hold to maturity are classified as available-for-sale and reported at fair market value. Unrealized gains and losses associated with available-for-sale investments are recorded in Accumulated other comprehensive (loss) income on the accompanying balance sheets. The amortization of premiums and accretion of discounts, and any realized gains and losses and declines in value judged to be other than temporary, and interest and dividends for all available-for-sale securities are included in Investment income, net on the accompanying statements of operations. The Company had no held-to-maturity investments, as defined by SFAS No. 115, at September 30, 2008 and December 31, 2007. The cost of securities sold is based on the specific identification method.

The Company had no realized gains or losses from available-for-sale securities for the three and nine months ended September 30, 2008 and 2007. There were no losses or declines in value judged to be other-than-temporary included in investment income, net for any securities in the three and nine months ended September 30, 2008 and 2007.

The Company's available-for-sale investments at market value consisted of the following at September 30, 2008 and December 31, 2007:

<b>(in thousands)</b>	<b>September 30, 2008</b>	<b>December 31, 2007</b>
Certificates of deposit	\$	\$ 2,801
Corporate bonds due in one year or less	19,365	1,653
Corporate bonds due in more than one year	1,231	
Government bonds due in one year or less		6,701
Total	\$ 20,596	\$ 11,155

**(4) (b) Fair Values of Assets and Liabilities**

In September 2006, the Financial Accounting Standards Board (FASB) issued Statement of Financial Accounting Standards (SFAS) No. 157, *Fair Value Measurements*, effective for financial statements issued for fiscal years beginning after November 15, 2007. SFAS No. 157 replaces multiple existing definitions of fair value with a single definition, establishes a consistent framework for measuring fair value and expands financial statement disclosures regarding fair value measurements. This Statement applies only to fair value measurements that already are required or permitted by other accounting standards and does not require any new fair value measurements. The Company's adoption of SFAS No. 157 in the first quarter of 2008 did not have a material impact on the Company's financial position or results of operations.

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In accordance with the provisions of SFAS No. 157, the Company measures fair value at the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. SFAS No. 157 prioritizes the assumptions that market participants would use in pricing the asset or liability (the inputs) into a three-tier fair value hierarchy. This fair value hierarchy gives the highest priority (Level 1) to quoted prices in active markets for identical assets or liabilities and the lowest priority (Level 3) to unobservable inputs in which little or no market data exists, requiring companies to develop their own assumptions. Observable inputs that do not meet the criteria of Level 1, and include quoted prices for similar assets or liabilities in active markets or quoted prices for identical assets and liabilities in markets that are not active, are categorized as Level 2. Level 3 inputs are those that reflect the Company's estimates about the assumptions market participants would use in pricing the asset or liability, based on the best information available in the circumstances. Valuation techniques for assets and liabilities measured using Level 3 inputs may include unobservable inputs such as projections, estimates and management's interpretation of current market data. These unobservable Level 3 inputs are only utilized to the extent that observable inputs are not available or cost-effective to obtain.

The table below presents the assets and liabilities measured at fair value on a recurring basis at September 30, 2008 categorized by the level of inputs used in the valuation of each asset and liability.

<b>(in thousands)</b>	<b>Total</b>	<b>Quoted Prices in Active Markets for Identical Assets or Liabilities (Level 1)</b>	<b>Significant Other Observable Inputs (Level 2)</b>	<b>Significant Unobservable Inputs (Level 3)</b>
<b>Assets</b>				
Money market funds	\$ 38,108	\$ 38,108	\$	\$
Investments	20,596		20,596	
<b>Total</b>	<b>\$ 58,704</b>	<b>\$ 38,108</b>	<b>\$ 20,596</b>	<b>\$</b>
<b>Liabilities</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

The money market funds are classified as Level 1 since they are actively traded daily at \$1.00 per share.

The fair value of short-term investments is generally determined from quoted market prices received from pricing services based upon quoted prices from active markets and/or other significant observable market transactions at fair value. Since these prices may not represent actual transactions of identical securities, they are classified as Level 2. Since all investments are classified as available-for-sale securities, any gains or losses are recorded in other comprehensive gains or losses in the equity section of the balance sheet.

The Company also adopted the provisions of SFAS No. 159 *The Fair Value Option for Financial Assets and Financial Liabilities Including an Amendment of FASB Statement No. 115* in the first quarter of 2008. SFAS No. 159 allows companies to choose to measure eligible assets and liabilities at fair value with changes in value recognized in earnings. Fair value treatment may be elected either upon initial recognition of an eligible asset or liability or, for an existing asset or liability, if an event triggers a new basis of accounting. The Company did not elect to re-measure any of its existing financial assets or liabilities under the provisions of SFAS No. 159.

**(4) (c) Unrealized Losses**

Investments with unrealized losses are those investments whose cost exceeds market value. Investments with unrealized losses are as follows:





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	<b>Investments in Continuous Unrealized Loss Positions</b>		<b>Total Investments in Unrealized Loss Position</b>
	<b>for:</b>		
<b>(in thousands)</b>	<b>Less than 12 Months</b>	<b>More than 12 Months</b>	
<b>Short-term investments at September 30, 2008</b>			
Aggregate fair value of investments with unrealized losses (includes accrued interest of \$115)	\$ 13,494	\$	\$ 13,494
Aggregate amount of unrealized losses	\$ 324	\$	\$ 324
<b>Short-term investments at December 31, 2007</b>			
Aggregate fair value of investments with unrealized losses (includes accrued interest of \$97)	\$ 2,000	\$	\$ 2,000
Aggregate amount of unrealized losses	\$	\$	\$
<b>Long-term investments at September 30, 2008</b>			
Aggregate fair value of investments with unrealized losses (includes accrued interest of \$38)	\$ 1,269	\$	\$ 1,269
Aggregate amount of unrealized losses	\$ 14	\$	\$ 14

There were no long-term investments at December 31, 2007.

The Company holds 12 investments which have an aggregate market value of \$14,763,000 and a gross unrealized loss aggregating \$338,000 at September 30, 2008. There are no related realized losses recorded in the Statement of Operations during the three and nine months ending September 30, 2008. Some of the factors reviewed in making that determination as of September 30, 2008 are presented below.

All of these investments are investment grade corporate bonds of which three have an aggregate amortized cost of \$3,012,000 and represent \$301,000 or 89% of the unrealized loss. The Company believes that each of these three issuers have strong positions within their respective segments of the financial services industry and are well capitalized.

The unrealized losses on investments at September 30, 2008, shown in the above table, were primarily due to deterioration, volatility and illiquidity in the broader credit markets that resulted in widening of credit spreads over risk free rates well beyond historical norms, rather than any significant credit downgrades on these securities. Because the Company has the ability and intent to hold these securities until a recovery of fair value to amortized cost, which may be maturity, the Company currently believes it is probable that it will collect all amounts due according to their respective contractual terms. Therefore, there were no declines in value that were judged to be other-than-temporary as of September 30, 2008.

**(5) Property and Equipment**

At September 30, 2008 and December 31, 2007, net property and equipment at cost consists of the following:

<b>(in thousands)</b>	<b>September 30, 2008</b>	<b>December 31, 2007</b>
Leasehold improvements	\$ 486	\$ 430

Laboratory equipment and other	2,736	2,585
Total property and equipment, at cost	3,222	3,015
Less: Accumulated depreciation and amortization	1,297	1,051
Property and equipment, net	\$ 1,925	\$ 1,964

Laboratory equipment and other includes approximately \$98,000 of office equipment financed under a capital lease with accumulated depreciation of approximately \$34,000 and \$19,000 as of September 30, 2008 and December 31, 2007, respectively. Depreciation expense, which includes amortization of assets recorded under capital leases, was approximately \$135,000 and \$119,000 for the three months ended September 30, 2008 and 2007, respectively, and \$391,000 and \$247,000 for the nine months ended September 30, 2008 and 2007, respectively.

(6) Restricted Cash

As part of the operating lease entered into by the Company in October 2006, the Company was required to restrict \$619,000 of cash for a security deposit. These funds are held in certificates of deposit securing a line of credit for the lessor. The restricted cash is expected to be reduced by approximately \$103,000 upon each of the second, third and fourth anniversaries of the lease commencement date of June 2007, subject to certain conditions.

(7) Note Payable

In June 2007, the Company executed a promissory note in the aggregate principal amount of \$1.3 million (the Note ) in favor of General Electric Capital Corporation ( GE ). The Note was fully secured by specific laboratory, manufacturing, office and computer equipment and was subject to the terms of a master security agreement dated April 23, 2007 by and between the Company and GE.

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The Note bore interest at a fixed rate of 11% per annum, and was payable in 48 consecutive monthly installments of principal and accrued interest, with the first installment having been paid out of the proceeds of the borrowing.

In March 2008, the Company paid approximately \$1,189,000 to GE as payment in full of all obligations outstanding under the Company's Note. The payment represented approximately \$1,121,000 of principal plus accrued interest through the date of payment of approximately \$12,000 and a prepayment premium of approximately \$56,000. The Note was cancelled in March 2008.

**(8) 4% Convertible Notes Payable**

In May 2005, the Company sold approximately \$5,033,000 in aggregate principal amount of 4% convertible subordinated notes that were due April 30, 2008 (the 4% Notes). In February 2007, the Company automatically converted these 4% Notes into 706,844 shares of the Company's common stock. In accordance with the terms of the 4% Notes and an agreement dated May 20, 2005, among the Company and the holders of the 4% Notes, the Company was entitled to exercise this right of automatic conversion because the volume-weighted average of the closing prices of the Company's common stock, for a period of ten consecutive trading days, exceeded \$8.90 per share, which represented 125% of the conversion price of the 4% Notes. As of February 20, 2007, the 4% Notes were no longer considered outstanding and interest ceased to accrue. Holders of the 4% Notes were paid cash in lieu of any fractional shares and \$61,000 in accrued interest through February 19, 2007.

The Company capitalized its financing costs associated with the sale of the 4% Notes and amortized them as interest expense through February 19, 2007. The unamortized balance of the deferred financing costs of \$266,000 was reclassified to additional paid-in-capital in connection with the automatic conversion of the 4% Notes in the nine months ended September 30, 2007.

**(9) Comprehensive Income (Loss)**

The following table includes the components of comprehensive income (loss) for the three and nine months ended September 30, 2008 and 2007.

<b>(in thousands)</b>	<b>Three months ended September</b>		<b>Nine months ended September</b>	
	<b>2008</b>	<b>2007</b>	<b>2008</b>	<b>2007</b>
Net income (loss)	\$ 1,980	\$ (3,166)	\$ 1,145	\$ (8,701)
Other comprehensive income (loss)	(291)	26	(346)	5
Total comprehensive income (loss)	\$ 1,689	\$ (3,140)	\$ 799	\$ (8,696)

Other comprehensive loss represents the net unrealized losses on available-for-sale investments.

**(10) License Agreement with Merck KGaA**

In December 2007, the Company entered into an exclusive, worldwide license agreement with Merck KGaA to research, develop and commercialize products containing the Company's TLR9 agonists for the treatment of cancer, excluding cancer vaccines, which agreement became effective February 4, 2008. Under the terms of the agreement, Idera granted Merck KGaA worldwide exclusive rights to its lead TLR9 agonists, IMO-2055 and IMO-2125, and to a specified number of novel, follow-on TLR9 agonists to be identified by Merck KGaA and the Company under a research collaboration, for use in the treatment, cure and/or delay of the onset or progression of cancer in humans. Under the terms of the agreement, in February 2008 Merck KGaA paid the Company a \$40.0 million upfront license fee in Euros of which \$39.7 million was received due to foreign currency exchange rates in effect at that time. The Company is recognizing the \$40.0 million upfront payment paid under the collaboration as revenue over the expected period of the Company's continuing involvement. Under the agreement, Merck KGaA is reimbursing the Company for development costs for certain on-going IMO-2055 clinical trials, which are continuing to be conducted by the Company. Merck KGaA also agreed to reimburse future development costs for certain of the Company's planned IMO-2055 clinical trials, which will be conducted by the Company, to pay up to EUR 264 million in development, regulatory approval, and commercial success milestone payments if products containing the Company's TLR9 agonist compounds are successfully developed and marketed for treatment, cure and/or delay of the onset or progression of

cancer in humans, and to pay royalties on net sales of products containing the Company's TLR9 agonists that are marketed.

(11) Collaboration and License Agreement with Merck & Co., Inc.

In December 2006, the Company entered into an exclusive license and research collaboration agreement with Merck & Co. to research, develop, and commercialize vaccine products containing the Company's TLR7, 8, and 9 agonists in the fields of cancer, infectious diseases, and Alzheimer's disease. Under the terms of the agreement, the Company granted Merck & Co. worldwide exclusive rights to a number of the Company's TLR7, 8, and 9 agonists for use in combination with Merck & Co.'s therapeutic and

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prophylactic vaccines under development in the fields of cancer, infectious diseases, and Alzheimer's disease. The Company also agreed with Merck & Co. to engage in a two-year research collaboration to generate novel agonists targeting TLR7 and TLR8 and incorporating both Merck & Co. and Idera chemistry for use in vaccines in the defined fields, which may be extended by Merck & Co. for two additional one-year periods. The Company is currently in discussions with Merck & Co. regarding an extension of the research term for the first one-year period. Under the terms of the agreement: Merck & Co. paid the Company a \$20.0 million upfront license fee; Merck & Co. purchased \$10.0 million of the Company's common stock at \$5.50 per share; and Merck & Co. agreed to fund the research and development collaboration. Merck & Co. also agreed to pay the Company milestone payments as follows: up to \$165.0 million if vaccines containing the Company's TLR9 agonist compounds are successfully developed and marketed in each of the oncology, infectious disease, and Alzheimer's disease fields; up to \$260.0 million if vaccines containing the Company's TLR9 agonist compounds are successfully developed and marketed for follow-on indications in the oncology field and if vaccines containing the Company's TLR7 or TLR8 agonists are successfully developed and marketed in each of the oncology, infectious disease, and Alzheimer's disease fields; and if Merck & Co. develops and commercializes additional vaccines using the Company's agonists, it would be entitled to receive additional milestone payments. In addition, Merck & Co. agreed to pay the Company royalties on net product sales of vaccines using the Company's TLR agonist technology that are developed and marketed.

The Company is recognizing the \$20.0 million upfront payment as revenue over the two-year initial research term and the additional two-year-period over which the research term could be extended. The Company has estimated that this is its period of continuing involvement under the research arrangement.

In December 2006, in connection with the execution of the license and collaboration agreement, the Company entered into a stock purchase agreement with Merck & Co. Pursuant to the purchase agreement, the Company issued and sold to Merck & Co. 1,818,182 shares of the Company's common stock for a price of \$5.50 per share resulting in an aggregate gross proceeds of \$10.0 million. Merck & Co. agreed, subject to certain exceptions, that prior to December 8, 2007, it would not sell any of the shares of the Company's common stock acquired by it and that, for the duration of the research term, its ability to sell such shares will be subject to specified volume limitations.

In April 2008, the Company, under its collaboration agreement with Merck & Co., achieved a preclinical milestone with one of its novel TLR9 agonists used as an adjuvant in a cancer vaccine under preclinical study. As a result, the Company received a \$1.0 million milestone payment from Merck & Co. in May 2008.

(12) Collaboration and License Agreement with Novartis International Pharmaceutical, Ltd.

In May 2005, the Company entered into a research collaboration and option agreement and a separate license, development and commercialization agreement with Novartis to discover, develop and potentially commercialize TLR9 agonists that are identified as potential treatments for asthma and allergies. The Company and Novartis agreed that the term of the research and collaboration phase would be two years commencing in May 2005. The Company initially was recognizing the \$4.0 million upfront payment paid under the collaboration as revenue over the two-year term of the research collaboration. In February 2007, Novartis elected to extend the research collaboration by an additional year. As a result of such extension, Novartis paid the Company an additional \$1.0 million in May 2007. In March 2008, the Company agreed to extend the research collaboration until December 31, 2008. The extension was anticipated to allow for the advancement of QAX935, a novel agonist of TLR9, into human clinical trials prior to the end of the research collaboration term. The Company amortized the upfront payment and the extension payment through the third quarter of 2008 by which time the Phase 1 clinical study of QAX935 had been initiated.

In September 2008, the Company announced that Novartis had initiated a Phase 1 clinical study of QAX935. As a result of the initiation of this Phase 1 clinical study, the Company recognized milestone revenue in the three and nine months ended September 30, 2008 and received a \$1.0 million milestone payment from Novartis in October 2008.

(13) Stock-Based Compensation

The Company accounts for share-based payments to employees under SFAS No. 123R, *Share-Based Payment*, (SFAS No. 123R). This statement requires the Company to recognize all share-based payments to employees in the financial statements based on their fair values. Under SFAS No. 123R, the Company is required to record compensation expense over an award's vesting period based on the award's fair value at the date of grant. The Company's policy is to charge the fair value of stock options as an expense on a straight-line basis over the vesting

period. The Company included charges of \$653,000 and \$422,000 for the three months ended September 30, 2008 and 2007, respectively, and \$1,955,000 and \$1,176,000 for the nine months ended September 30, 2008 and 2007, respectively, in its statements of operations representing the stock compensation expense computed in accordance with SFAS No. 123R.

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The Company's stock compensation plans include the 1995 Stock Option Plan, the 1995 Director Stock Option Plan, the 1995 Employee Stock Purchase Plan, the 1997 Stock Incentive Plan, the 2005 Stock Incentive Plan and the 2008 Stock Incentive Plan, all of which have been approved by the Company's stockholders. No additional options are being granted under the 1995 Stock Option Plan, the 1995 Director Stock Option Plan, the 1997 Stock Incentive Plan and the 2005 Stock Incentive Plan. In 2001, the Company also granted options to purchase shares of Common Stock pursuant to agreements that were not approved by stockholders.

The fair value of each option award is estimated on the date of grant using the Black-Scholes option-pricing model and expensed over the requisite service period on a straight-line basis. The following assumptions apply to the options granted during the nine months ended September 30, 2008 and 2007:

	<b>Nine Months Ended September 30,</b>	
	<b>2008</b>	<b>2007</b>
Average risk free interest rate	3.3%	4.8%
Expected dividend yield		
Expected lives	4.9 years	5.9 years
Expected volatility	65.4%	70.2%
Weighted average grant date fair value of options granted during the period (per share)	\$ 7.62	\$ 4.86

The Company also awarded non-employee stock options to purchase 60,000 shares of common stock during the first quarter of 2008. These options had a Black-Scholes fair value of \$710,000 at the time of grant based on a risk free interest rate of 3.9%, an expected life of 10 years, and an expected volatility of 95%. In addition, the Company awarded non-employee stock options to purchase 26,000 shares of common stock during the second quarter of 2008. These options had a Black-Scholes fair value of \$330,000 at the time of grant based on a risk free interest rate of 4.0%, an expected life of 10 years, and an expected volatility of 91%. The fair value of the nonvested portion of the non-employee options will be remeasured each quarter in accordance with EITF 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 No. 96-18) based on the expected lives and other assumptions applicable to the unvested portion of each non-employee stock option as of each re-measurement date. Expense for non-employee stock options was \$242,000 and \$93,000 in the three months ended September 30, 2008 and 2007, respectively, and \$713,000 and \$258,000, in the nine months ended September 30, 2008 and 2007, respectively.

**(14) Alternative Minimum Tax**

Merck KGaA paid the Company in February 2008 a \$40.0 million upfront license fee in Euros of which \$39.7 million was received due to foreign currency exchange rates in effect at that time. In the three months ended March 31, 2008, the Company made an estimated quarterly tax payment and recorded income tax expense of \$50,000 as a result of the payment from Merck KGaA generating income that the Company believed would be subject to the alternative minimum tax, or AMT. In the three months ended June 30, 2008, the Company reversed the \$50,000 recorded as income tax expense as the Company no longer expects to have income subject to AMT. The Company did not have income subject to AMT for the three or nine months ended September 30, 2007.

**(15) Net Income (Loss) per Common Share**

The following table sets forth the computation of basic and diluted income (loss) per share:

<b>(in thousands, except per share amounts)</b>	<b>Three Months Ended</b>		<b>Nine Months Ended</b>	
	<b>September 30,</b>		<b>September 30,</b>	
	<b>2008</b>	<b>2007</b>	<b>2008</b>	<b>2007</b>

Numerator for basic and dilutive net income (loss) per share:

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Net income (loss)	\$ 1,980	\$ (3,166)	\$ 1,145	\$ (8,701)
Denominator for basic income (loss) per share:				
Weighted average common shares outstanding	23,022	21,346	22,428	21,132
Effect of dilutive securities:				
Common stock options and warrants	2,757		3,110	
Denominator for diluted income (loss) per share	25,779	21,346	25,538	21,132
Basic income (loss) per share	\$ 0.09	\$ (0.15)	\$ 0.05	\$ (0.41)
Diluted income (loss) per share	\$ 0.08	\$ (0.15)	\$ 0.04	\$ (0.41)



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For the three and nine months ended September 30, 2008, 20,426 and 739,863 shares, respectively, were not included in the computation of diluted net income per share as the effects of certain stock options and convertible preferred stock are antidilutive. For the three and nine months ended September 30, 2007, diluted net loss per share of common stock is the same as basic net loss per share of common stock, as the effects of the Company's potential common stock equivalents are antidilutive. Total antidilutive securities were 739,863 and 7,325,066 for the nine months ended September 30, 2008 and 2007, respectively, and consist of shares underlying stock options, warrants and convertible preferred stock. Net income (loss) applicable to common stockholders is the same as net income (loss) for all periods presented.

**(16) Stockholders' Equity**

In January 2008, the Company sent notice to holders of the Company's warrants to purchase common stock that were issued in August 2004 with an expiration date of August 27, 2009 (the August 2004 Warrants) that under the terms of the warrant agreement, it intended to redeem on March 31, 2008 any August 2004 Warrants not exercised as of that date for a redemption price of \$0.08 per share of common stock underlying the August 2004 Warrants. The Company was entitled to exercise this redemption right because the closing price of the Company's common stock for twenty consecutive trading days ending December 20, 2007 was greater than \$10.72 or 200% of the exercise price of the warrant. The August 2004 Warrants were exercisable by cash payment only and had an exercise price of \$5.36 per share of common stock. Following such notice and through March 31, 2008, the Company received approximately \$1,472,000 in proceeds from the exercise of August 2004 Warrants to purchase 274,650 shares of common stock. As of March 31, 2008, all August 2004 Warrants had been exercised.

In June 2008, the Company sent notice to Pillar Investment Limited, the holder of a warrant to purchase 70,684 shares of the Company's common stock that was issued in May 2005 with an expiration date of May 24, 2010 (the May 2005 Warrant) that under the terms of the warrant agreement it intended to redeem on September 12, 2008 the May 2005 Warrant if not exercised as of that date for a redemption price of \$0.08 per share of common stock underlying the May 2005 Warrant. The Company was entitled to exercise this redemption right because the closing price of the Company's common stock for twenty consecutive trading days ending June 3, 2008 was greater than \$14.24 or 200% of the exercise price of the warrant. The May 2005 Warrant was exercisable by cash payment only and had an exercise price of \$7.12 per share of common stock. Following such notice, the Company received approximately \$503,000 in proceeds from the exercise of the May 2005 warrant to purchase 70,684 shares of common stock. The May 2005 warrant was exercised in September 2008. Pillar Investment Limited is controlled by a director of the Company.

During the nine months ended September 30, 2008, the Company issued 1,801,215 shares of common stock in connection with purchases under our employee stock purchase plan and warrant and stock option exercises, including the exercises of the August 2004 Warrants and the May 2005 Warrant, resulting in total proceeds to the Company of \$9,831,000.

**(17) Related Party Transactions**

During the nine months ended September 30, 2008, the Company recorded expense of \$91,000 for consulting services provided by Dr. Robert W. Karr, a director of the Company. The Company had no related party transactions in the nine months ended September 30, 2007.

**ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****GENERAL**

We are engaged in the discovery and development of DNA- and RNA-based drug candidates targeted to Toll-Like Receptors, or TLRs, to treat infectious diseases, autoimmune diseases, cancer, and asthma and allergies, and for use as vaccine adjuvants. Drug candidates are compounds that we are developing and have not been approved for any commercial use. TLRs are specific receptors present in immune system cells that recognize the DNA or RNA of pathogens such as bacteria or viruses and initiate an immune response. Relying on our expertise in DNA and RNA chemistry, we have designed and created proprietary TLR agonists and antagonists to modulate immune responses. A TLR agonist is a compound that stimulates an immune response through the targeted TLR. A TLR antagonist is a compound that blocks activation of an immune response through the targeted TLR.

We are focused on developing TLR-targeted compounds for the potential treatment of infectious diseases, autoimmune diseases, and cancer. IMO-2125, a TLR9 agonist, is our lead drug candidate for infectious diseases. At present, we are conducting a Phase 1 clinical trial of IMO-2125 in patients with chronic hepatitis C virus infection who have not responded to current standard of care therapy. As part of our infectious disease program, we are also evaluating RNA-based compounds that act as agonists of TLR7 and

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TLR8. We have evaluated some of our TLR7 and TLR8 agonist compounds in preclinical studies in human cell-based assays and *in vivo* in non-human primates. We intend to further evaluate these compounds in preclinical models of infectious disease. In our autoimmune disease program, we have identified DNA-based compounds that act as antagonists of TLR7 and TLR9. We have evaluated some of our TLR antagonist compounds in various preclinical studies, including in mouse models of lupus, rheumatoid arthritis, multiple sclerosis, colitis, and psoriasis, and selected IMO-3100, a TLR antagonist, as a lead compound for preclinical development in our autoimmune disease program. Our cancer treatment research program is focused on potential applications of our TLR7 and TLR8 agonists. We intend to further evaluate these compounds in preclinical models of cancer.

In addition, we are collaborating with three pharmaceutical companies to advance our TLR-targeted compounds in multiple disease areas. We are collaborating with Merck KGaA to research, develop, and commercialize products containing our TLR9 agonists, including IMO-2055, for the treatment of cancer, excluding cancer vaccines. We are also collaborating with Merck & Co., Inc. for the use of our TLR7, 8 and 9 agonists in combination with Merck & Co.'s therapeutic and prophylactic vaccines in the areas of oncology, infectious diseases, and Alzheimer's disease and with Novartis International Pharmaceutical, Ltd. for the discovery, development, and commercialization of our TLR9 agonists for the treatment of asthma and allergy indications. Merck KGaA and Merck & Co. are not related.

As of September 30, 2008, we had an accumulated deficit of \$341,589,000. We may incur substantial operating losses in future periods. No assurance can be given that we will be able to operate profitably on a consistent basis, or at all, in the future. We do not expect to generate significant funds until we successfully complete development and obtain marketing approval for products, either alone or in collaborations with third parties, which we expect will take a number of years. In order to commercialize our products, we need to address a number of technological challenges and to comply with comprehensive regulatory requirements. In 2008, our research and development expenses have been higher than our research and development expenses in 2007 as we expanded our IMO-2125 development program and accelerate our early-stage programs on TLR antagonists and on agonists of TLR7 and TLR8.

**CRITICAL ACCOUNTING POLICIES AND ESTIMATES**

This management's discussion and analysis of financial condition and results of operations is based on our financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States. The preparation of these financial statements requires management 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 and the reported amounts of revenues and expenses during the reporting period. On an ongoing basis, management evaluates its estimates and judgments, including those related to revenue recognition. Management bases its estimates and judgments on historical experience and on various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values 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 regard an accounting estimate or assumption underlying our financial statements as a critical accounting estimate where (i) the nature of the estimate or assumption is material due to the level of subjectivity and judgment necessary to account for highly uncertain matters or the susceptibility of such matters to change; and (ii) the impact of the estimates and assumptions on financial condition or operating performance is material.

Our significant accounting policies are described in Note 2 of the Notes to Financial Statements in our Annual Report on Form 10-K for the year ended December 31, 2007. Not all of these significant accounting policies, however, fit the definition of critical accounting estimates. We believe that our accounting policies relating to revenue recognition and stock based compensation, as described under the caption Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations Critical Accounting Policies in our Annual Report on Form 10-K for the year ended December 31, 2007, fit the definition of critical accounting estimates and judgments.

**RESULTS OF OPERATIONS*****Three and Nine Months Ended September 30, 2008 and 2007******Alliance Revenue***

Our alliance revenues were comprised of revenue earned under various collaboration and licensing agreements for research and development, including reimbursement of internal and third-party expenses, license fees, which includes

sublicense fees and royalties, and milestones.

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The following is a summary of our alliance revenues:

	Three Months Ended			Nine Months Ended		
	September 30, (In thousands)		Percentage Increase (Decrease)	September 30, (In thousands)		Percentage Increase (Decrease)
	2008	2007		2008	2007	
License fees	\$ 5,805	\$ 1,600	263%	\$ 15,947	\$ 5,040	216%
Research and development Milestones	693	370	87%	2,188	708	209%
	1,000			2,000		
Total Alliance Revenue	\$ 7,498	\$ 1,970	281%	\$ 20,135	\$ 5,748	250%

Total alliance revenue increased by \$5,528,000, or 281%, for the three months ended September 30, 2008 compared to the same period in 2007 and increased by \$14,387,000, or 250%, for the nine months ended September 30, 2008 compared to the same period in 2007.

License fees primarily include license fee revenue recognized under our collaborations with Merck KGaA, Merck & Co., and Novartis. License fees are comprised of a portion of upfront license fee payments we have received from alliance partners with whom we are still involved. License fees in the three and nine month periods ended September 30, 2008 increased primarily due to license fee revenue we recognized under our collaboration with Merck KGaA, which became effective February 4, 2008. We are recognizing the \$40.0 million upfront payment paid by Merck KGaA in February 2008 over the expected period of our continuing involvement.

The increases in research and development revenues in the three and nine month periods ended September 30, 2008 are due to reimbursable clinical trial costs from trials we are conducting under our collaboration agreement with Merck KGaA. The increase in the nine month period is also attributable to the purchase of our bulk IMO-2055 drug supply by Merck KGaA at cost and increased reimbursable research costs attributable to expanding research under our Merck & Co. collaboration agreement.

The increase in alliance revenue in the three and nine month periods ended September 30, 2008 is also attributable to milestone revenue earned under our collaboration with Novartis relating to an initiation of a Phase 1 clinical study by Novartis. The increase in alliance revenue in the nine month period is also attributable to milestone revenue earned under our collaboration with Merck & Co. relating to a preclinical milestone achieved by Merck & Co. with one of our novel TLR9 agonists used as an adjuvant in a cancer vaccine under preclinical study.

#### *Research and Development Expenses*

Research and development expenses increased by \$101,000, or 3%, from \$3,479,000 for the three months ended September 30, 2007 to \$3,580,000 for the three months ended September 30, 2008, and increased by \$2,578,000, or 28%, from \$9,288,000 for the nine months ended September 30, 2007 to \$11,866,000 for the nine months ended September 30, 2008. The increases in research and development expenses in the three and nine months ended September 30, 2008 compared to the three and nine months ended September 30, 2007 were primarily due to increased non-clinical safety studies and clinical costs associated with our ongoing clinical trial of IMO-2125, increased costs for non-clinical safety studies associated with IMO-3100, increased research expenses under our Merck & Co. agreement, which Merck & Co. has agreed to reimburse, and increased compensation expenses attributable to employee stock options and accrued performance-based bonus expense. No performance-based bonus expense was accrued in the three and nine months ended September 30, 2007. The increase in research and development expenses for the three months ended September 30, 2008 was partially offset by a decrease in clinical trial costs associated with IMO-2055. The increase in research and development expenses for the nine months ended September 30, 2008 included increased clinical costs associated with IMO-2055, which are reimbursable, in part, under our Merck KGaA agreement.

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	Three Months Ended			Nine Months Ended		
	September 30, (In thousands)		Percentage	September 30, (In thousands)		Percentage
	2008	2007	(Decrease)	2008	2007	(Decrease)
IMO-2055 External						
Development Expense	\$ 402	\$ 615	(35%)	\$ 1,513	\$ 1,375	10%
IMO-2125 External						
Development Expense	556	472	18%	2,348	707	232%
Other Drug						
Development Expense	964	1,073	(10%)	2,947	3,162	(7%)
Basic Discovery						
Expense	1,658	1,319	26%	5,058	4,044	25%
Total Research and						
Development Expense	\$ 3,580	\$ 3,479	3%	\$ 11,866	\$ 9,288	28%

In the preceding table, research and development expense is set forth in the following four categories:

*IMO-2055 External Development Expenses.* IMO-2055 is a lead compound being developed for oncology applications under our collaboration with Merck KGaA that we entered into in December 2007.

External development expenses reflect payments to independent contractors and vendors for drug development activities conducted after the initiation of IMO-2055 clinical trials but exclude internal costs such as payroll and overhead expenses. Since 2003, when we commenced clinical development of IMO-2055, we have incurred approximately \$14.0 million in external expenses through September 30, 2008 in connection with IMO-2055.

External development expenses for IMO-2055 decreased by \$213,000, or 35%, from \$615,000 for the three months ended September 30, 2007 to \$402,000 for the three months ended September 30, 2008 and increased by \$138,000, or 10%, from \$1,375,000 for the nine months ended September 30, 2007 to \$1,513,000 for the nine months ended September 30, 2008. The decrease in IMO-2055 expenses in the three months ended September 30, 2008 compared to the same period in 2007 was primarily attributable to decreased clinical trial expenses related to our Phase 1 clinical trial of IMO-2055 combined with gemcitabine and carboplatin in patients with solid tumor cancers and our Phase 2 Stage A clinical trial of IMO-2055 as a monotherapy in patients with metastatic or recurrent clear cell renal cancer as we had completed dosing prior to the three months ended September 30, 2008 in these trials. This decrease was offset, in part, by increased clinical trial expenses associated with our Phase 1b trial of IMO-2055 combined with Avastin<sup>®</sup> and Tarceva<sup>®</sup> in patients with non-small cell lung cancer which was initiated in December 2007. The increase in IMO-2055 expenses for the nine months ended September 30, 2008 compared to the same period in 2007 was attributable to increased clinical trial expenses associated with our Phase 1b trial of IMO-2055 combined with Avastin and Tarceva in patients with non-small cell lung cancer. This increase was offset, in part, by decreased clinical trial expenses related to our Phase 1 clinical trial of IMO-2055 combined with gemcitabine and carboplatin in patients with solid tumor cancers. Under our collaboration agreement with Merck KGaA, approximately \$237,000 of expenses in the three months ended September 30, 2008 and \$601,000 of expenses in the nine months ended September 30, 2008 related to the Phase 1b combination trial are reimbursable.

Prior to entering into our collaboration with Merck KGaA, we had conducted two Phase 1 clinical studies of IMO-2055 monotherapy and one Phase 1 clinical trial of IMO-2055 in combination therapy. In July 2007, we closed enrollment in a Phase 1 clinical trial of IMO-2055 in combination with the chemotherapy agents gemcitabine and carboplatin in patients with refractory solid tumor cancers and in September 2007, we reported interim results.

We have also conducted an open label, multi-center Phase 2 Stage A clinical trial of IMO-2055 as a monotherapy in patients with metastatic or recurrent clear cell renal cancer. In the trial, treatment-naïve and second-line patients were randomly assigned to receive IMO-2055 subcutaneously at either 0.16 mg/kg/week or 0.64 mg/kg/week. The last patient stopped receiving treatment in March 2008. In October 2008, we announced preliminary data from the trial.

Eighty-nine patients were evaluable for efficacy endpoints. The primary objective was tumor response according to RECIST (Response Evaluation Criteria In Solid Tumors). Secondary objectives included time to progression, survival and safety. Progression-free survival also was analyzed. The primary objective was not achieved in the study. Median progression-free survival for the four arms of the trial was 2 months, 3 months, 4 months, and 4 months. IMO-2055 treatment was generally well-tolerated with good dose intensity in all arms of the trial. The most common adverse events were mild to moderate and included chills, fatigue, nausea, pyrexia, headache, myalgia, and vomiting. These flu-like symptoms were expected based on the immune stimulatory mechanism of action of IMO-2055. We expect to present detailed study results at a future scientific conference.

Under our agreement with Merck KGaA, we have agreed that we will continue to conduct on Merck KGaA's behalf an ongoing Phase 1b trial that we initiated in December 2007 of IMO-2055 in combination with Avastin and Tarceva in non-small cell lung cancer patients whose cancer had progressed during a prior course of standard therapy. The trial is designed to assess safety of the IMO-2055, Tarceva and Avastin combination and to determine the recommended dosage of IMO-2055 for potential use in a subsequent Phase 2 trial. We are currently recruiting patients for the trial, which was designed with a target enrollment of up to 40 patients.

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We also plan to initiate on behalf of Merck KGaA a Phase 1b clinical trial in the U.S. to investigate IMO-2055 in combination with Erbitux<sup>®</sup> and Camptosar<sup>®</sup> in patients with colorectal cancer. The trial is designed to assess safety of the IMO-2055, Erbitux and Camptosar combination and to determine the recommended dosage of IMO-2055 for potential use in a subsequent Phase 2 trial. Merck KGaA has agreed to reimburse us for the development costs associated with these two Phase 1b clinical trials incurred after February 4, 2008, which is the date our agreement with Merck KGaA became effective.

Under our agreement with Merck KGaA, Merck KGaA will determine how to proceed with further clinical development of IMO-2055 in the treatment of cancer.

*IMO-2125 External Development Expenses.* These expenses include external expenses that we have incurred in connection with IMO-2125, our lead compound initially being developed for chronic hepatitis C virus infection. These external expenses reflect payments to independent contractors and vendors for drug development activities conducted after the initiation of IMO-2125 clinical development but exclude internal costs such as payroll and overhead expenses. We commenced clinical development of IMO-2125 in May 2007 and since then we have incurred approximately \$3.6 million in external development expenses through September 30, 2008 in connection with IMO-2125, including costs associated with the initiation of our Phase 1 clinical trial and related non-clinical studies and manufacturing process development.

External development expenses for IMO-2125 increased by \$84,000, or 18%, from \$472,000 for the three months ended September 30, 2007 to \$556,000 for the three months ended September 30, 2008 and increased by \$1,641,000, or 232%, from \$707,000 for the nine months ended September 30, 2007 to \$2,348,000 for the nine months ended September 30, 2008. These increases in IMO-2125 expenses for the three and nine months ended September 30, 2008 compared to the same periods in 2007 were attributable to advancing our Phase 1 clinical trial of IMO-2125 and to costs for non-clinical safety studies of IMO-2125 initiated after the May 2007 submission to the United States Food and Drug Administration, or FDA, of the IMO-2125 investigational new drug, or IND, application.

In September 2007, we initiated a Phase 1 clinical trial of IMO-2125 in patients with chronic hepatitis C virus infection who have not responded to the current standard of care treatment. We plan to enroll up to 40 patients in four cohorts at escalating IMO-2125 dose levels, with four weeks of treatment. Of the ten patients per cohort, eight will be randomized to receive IMO-2125 treatment and two will be randomized to receive placebo treatment. The trial is designed to assess the safety of IMO-2125 at each dose level. Secondary objectives include assessments of the effects of IMO-2125 on hepatitis C virus RNA levels and parameters of immune system activation. We anticipate interim results from this trial to be available in the first half of 2009.

*Other Drug Development Expenses.* These expenses include internal and external expenses associated with preclinical development of identified compounds in anticipation of advancing these compounds into clinical development in addition to internal costs associated with products in clinical development.

The internal and external expenses associated with preclinical compounds include payments to contract vendors for manufacturing and the related stability studies, preclinical studies including animal toxicology and pharmacology studies and professional fees, as well as payroll and overhead expenses. Expenses associated with products in clinical development include costs associated with our Hepatitis C Clinical Advisory Board, our Oncology Clinical Advisory Board, our Autoimmune Disease Scientific Advisory Board, payroll, and overhead expenses.

Other drug development expenses decreased by \$109,000, or 10%, from \$1,073,000 for the three months ended September 30, 2007 to \$964,000 for the three months ended September 30, 2008 and decreased by \$215,000, or 7%, from \$3,162,000 for the nine months ended September 30, 2007 to \$2,947,000 for the nine months ended September 30, 2008. The decreases in both the three and nine months ended September 30, 2008 were attributable to lower payroll expenses resulting from fewer full-time equivalent positions associated with and allocated to preclinical and clinical development as well as the accrual of hiring bonuses in the 2007 periods that did not recur in the 2008 periods. The decreases in other drug development expenses in the three and nine months ended September 30, 2008 were partially offset by increased non-clinical safety studies associated with IMO-3100 and increased compensation expense attributable, in part, to accrued performance-based bonus expense. No performance-based bonus expense was accrued in the three or nine months ended September 30, 2007. The decrease in the nine months ended September 30, 2008 was also partially attributable to a decrease in IMO-2125 expenses due to attribution of IMO-2125 expenses



incurred after commencement of clinical development in May 2007 to a specific IMO-2125 External Development Expense category shown separately above.

*Basic Discovery Expenses.* These expenses include our internal and external expenses relating to the discovery and development in our TLR-targeted programs, including agonists and antagonists of TLRs 7, 8, and 9. These expenses reflect payments for laboratory supplies, external research, and professional fees, as well as payroll and overhead expenses. Basic discovery expenses increased by \$339,000, or 26%, from \$1,319,000 for the three months ended September 30, 2007 to \$1,658,000 for the three months ended

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September 30, 2008 and increased by \$1,014,000, or 25%, from \$4,044,000 for the nine months ended September 30, 2007 to \$5,058,000 for the nine months ended September 30, 2008. The increases for the three and nine months ended September 30, 2008 compared to the same periods in 2007 were primarily attributable to an increase in payroll expenses and laboratory supplies, in part, relating to expanding research under our Merck & Co. collaboration and an increase in compensation expenses attributable to employee stock options and accrued performance-based bonus expense. No performance-based bonus expense was accrued in the three or nine months ended September 30, 2007. The increase in the nine months ended September 30, 2008 was also attributable to an increase in costs associated with external research.

We do not know if we will be successful in developing any drug candidate from our research and development programs. At this time, without knowing the results of our ongoing clinical trials and without an established plan for future clinical tests of drug candidates, we cannot reasonably estimate or know the nature, timing and costs of the efforts that will be necessary to complete the remainder of the development of, or the period, if any, in which material net cash inflows may commence from, any drug candidate from our research and development programs. Moreover, the clinical development of any drug candidate from our research and development programs is subject to numerous risks and uncertainties associated with the duration and cost of clinical trials, which vary significantly over the life of a project as a result of unanticipated events arising during clinical development.

*General and Administrative Expenses*

General and administrative expenses consisted primarily of salary expense, stock compensation expense, consulting fees and professional legal fees associated with our patents, our regulatory filing requirements, and our business strategy initiatives. General and administrative expenses increased by \$271,000, or 13%, from \$2,033,000 in the three months ended September 30, 2007 to \$2,304,000 in the three months ended September 30, 2008 and increased by \$1,583,000, or 25%, from \$6,369,000 in the nine months ended September 30, 2007 to \$7,952,000 in the nine months ended September 30, 2008.

The increases in general and administrative expenses in the three and nine months ended September 30, 2008 compared to the three and nine months ended September 30, 2007 were primarily due to higher employee and consultant stock compensation expense, accrued performance-based bonus expense, and consulting expense. The increase in stock compensation expense was \$316,000 in the three months ended September 30, 2008 and \$966,000 in the nine months ended September 30, 2008 and was the result of stock compensation expenses associated with additional non-employee options and non-employee options re-measured at September 30, 2008, when our stock price was higher than in previous quarters and employee stock options granted in 2008 when our stock price was higher than in previous quarters. Salary expense increased, in part, as a result of a performance-based bonus accrual of \$96,000 in the three months ended September 30, 2008 and \$331,000 in the nine months ended September 30, 2008. There was no performance-based bonus accrued in the three or nine months ended September 30, 2007. The increases in nine months ended September 30, 2008 was also attributable to higher consulting fees associated with corporate business strategic initiatives undertaken in 2008 and patent filing and preparation costs. The increases in the three and nine months were offset, in part, by costs accrued in anticipation of payments to be made to our former Chief Financial Officer under the transition agreement we entered into with him in May 2007 and decreases in corporate legal expenses and recruiting fees.

*Investment Income, net*

Investment income decreased by approximately \$47,000, or 11%, from \$416,000 in the three months ended September 30, 2007 to \$369,000 in the three months ended September 30, 2008 and decreased by approximately \$137,000, or 10%, from \$1,322,000 in the nine months ended September 30, 2007 to \$1,185,000 in the nine months ended September 30, 2008. These decreases resulted from lower interest rates on our money market funds and lower yields on our investments in the three and nine months ended September 30, 2008.

*Interest Expense*

Interest expense decreased by approximately \$37,000, or 93%, from \$40,000 in the three months ended September 30, 2007 to \$3,000 in the three months ended September 30, 2008 and decreased by \$24,000, or 21%, from \$114,000 in the nine months ended September 30, 2007 to \$90,000 in the nine months ended September 30, 2008. The decrease in the three and nine month periods ended September 30, 2008 reflects our March 2008 repayment in full of

our note payable to General Electric Capital Corporation. As a result of this payment, we did not have interest related to our note in the three months ended September 30, 2008. The nine month period ended September 30, 2008 includes a prepayment premium associated with the note repayment. As a result of our repayment, the note was cancelled. This decrease in the nine months ended September 30, 2008 was also attributable to the conversion of all our 4% notes, issued in May 2005, in the aggregate principal amount of approximately \$5,033,000 into 706,844 shares of common stock on February 20, 2007.

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*Foreign Currency Exchange Loss*

Foreign currency exchange loss was \$267,000 in the nine months ended September 30, 2008. In February 2008, Merck KGaA paid us a \$40,000,000 upfront license fee denominated in Euros. We received \$39,733,000 U.S. dollars due to foreign currency exchange rates in effect at the time we received the payment, which resulted in the foreign currency exchange loss. There was no foreign currency exchange loss in the three months ended September 30, 2008 or in the three or nine months ended September 30, 2007.

*Net Income (Loss) Applicable to Common Stockholders*

As a result of the factors discussed above, we had net income applicable to common stockholders of \$1,980,000 for the three months ended September 30, 2008 compared to a net loss applicable to common stockholders of \$3,166,000 for the three months ended September 30, 2007 and net income applicable to common stockholders of \$1,145,000 for the nine months ended September 30, 2008 compared to a net loss applicable to common stockholders of \$8,701,000 for the nine months ended September 30, 2007. We have incurred losses of \$81,396,000 since January 1, 2001. We also incurred net losses of \$260,193,000 prior to December 31, 2000 during which time we were involved in the development of antisense technology. Since our inception, we had an accumulated deficit of \$341,589,000 through September 30, 2008. We may continue to incur substantial operating losses in the future.

**LIQUIDITY AND CAPITAL RESOURCES**

*Sources of Liquidity*

We require cash to fund our operating expenses, to make capital expenditures and to pay debt service. Historically, we have funded our cash requirements primarily through the following:

equity and debt financing;

license fees and research funding under collaborative and license agreements;

interest income; and

lease financings.

In June 2008, we sent notice to the holder of the a warrant to purchase 70,684 shares of our common stock that was issued in May 2005 with an expiration date of May 24, 2010, or the May 2005 Warrant, that under the terms of the warrant agreement, we intended to redeem on September 12, 2008 the May 2005 Warrant if not exercised as of that date for a redemption price of \$0.08 per share of common stock underlying the May 2005 Warrant. We were entitled to exercise this redemption right because the closing price of our common stock for twenty consecutive trading days ending June 3, 2008 was greater than \$14.24 or 200% of the exercise price of the warrant. The May 2005 Warrant was exercisable by cash payment only and had an exercise price of \$7.12 per share of common stock. Following the June 2008 notice of redemption, we received approximately \$503,000 in proceeds from the exercise of the May 2005 Warrant to purchase 70,684 shares of our common stock. The May 2005 Warrant was exercised in September 2008.

In January 2008, we sent notice to holders of warrants to purchase our common stock that were issued in August 2004 with an expiration date of August 27, 2009, or the August 2004 Warrants, that under the terms of the warrant agreement, we intended to redeem on March 31, 2008 any August 2004 Warrants not exercised as of that date for a redemption price of \$0.08 per share of common stock underlying the August 2004 Warrants. We were entitled to exercise this redemption right because the closing price of our common stock for twenty consecutive trading days ending December 20, 2007 was greater than \$10.72 or 200% of the exercise price of the warrant. The August 2004 Warrants were exercisable by cash payment only and had an exercise price of \$5.36 per share of common stock. Following the January 2008 notice of redemption and through March 31, 2008, we received approximately \$1,472,000 in proceeds from the exercise of August 2004 Warrants to purchase 274,650 shares of common stock. As of March 31, 2008, all August 2004 Warrants had been exercised.

During the nine months ended September 30, 2008, we received total proceeds of \$9,831,000 from purchases under our employee stock plan and warrant and stock option exercises, including the exercises of the August 2004 Warrants and the May 2005 Warrant.

In December 2007, we entered into an exclusive, worldwide license agreement with Merck KGaA to research, develop and commercialize products containing our TLR9 agonists for the treatment of cancer, excluding cancer vaccines. Under the terms of the agreement, in February 2008 Merck KGaA paid us a \$40,000,000 upfront license fee in Euros of which we received \$39,733,000 due to foreign currency exchange rates.

In June 2007, we executed a promissory note in the aggregate principal amount of \$1,313,000 in favor of General Electric Capital Corporation, or GE. The promissory note was secured by specific laboratory, manufacturing, office and computer equipment and was subject to the terms of a master security agreement between us and GE. The promissory note bore interest at a fixed rate of 11% per

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annum, and was payable in 48 consecutive monthly installments of principal and accrued interest, with the first installment having been paid out of the proceeds of the borrowing. In March 2008, we paid approximately \$1,189,000 to GE as payment in full of all obligations outstanding under our promissory note with GE. The payment represented approximately \$1,121,000 of principal amount outstanding plus accrued interest through the date of payment and a prepayment premium of approximately \$68,000. The note has been cancelled.

*Cash Flows*

As of September 30, 2008, we had approximately \$57,883,000 in cash and cash equivalents and short-term investments, a net increase of approximately \$34,140,000 from December 31, 2007. Operating activities provided \$27,559,000 of cash during the nine months ended September 30, 2008. The \$27,559,000 provided by operating activities primarily reflects the \$40,000,000 upfront payment less the \$267,000 foreign currency exchange loss under our agreement with Merck KGaA and our \$1,145,000 net income for the period, as adjusted for non-cash revenue and expenses, including depreciation and amortization, stock-based compensation, and changes in deferred revenue and our accounts receivable and payable.

The net cash used in investing activities during the nine months ended September 30, 2008 of \$10,206,000 reflects our purchase of approximately \$22,985,000 in securities offset by the proceeds of approximately \$13,145,000 from securities that matured in the nine months ended September 30, 2008. The net cash used in investing activities also reflects our purchases of \$355,000 in laboratory and computer equipment in the first half of 2008.

The net cash provided by financing activities during the nine months ended September 30, 2008 of \$8,577,000 reflects proceeds received from the exercise of stock options and warrants during the first three quarters of 2008 offset by the repayment of our promissory note.

*Funding Requirements*

We have incurred operating losses in all fiscal years except 2002 and in certain interim periods and had an accumulated deficit of \$341,589,000 at September 30, 2008. We had cash, cash equivalents and short-term investments of \$57,883,000 at September 30, 2008. We believe that our existing cash, cash equivalents and investments will be sufficient to fund our operations at least through March 31, 2010. We may incur substantial operating losses in future periods. These losses, among other things, have had and will continue to have an adverse effect on our stockholders' equity, total assets and working capital.

We have received no revenues from the sale of drugs. To date, almost all of our revenues have been from collaborative and license agreements. We have devoted substantially all of our efforts to research and development, including clinical trials, and we have not completed development of any drugs. Because of the numerous risks and uncertainties associated with developing drugs, we are unable to predict the extent of any future losses, whether or when any of our products will become commercially available, or when we will become profitable, if at all.

We do not expect to generate significant additional funds internally until we successfully complete development and obtain marketing approval for products, either alone or in collaboration with third parties, which we expect will take a number of years. In addition, we have no committed external sources of funds.

We believe that the key factors that will affect our internal and external sources of cash are:

the success of our clinical and preclinical development programs;

the success of our existing strategic collaborations with Merck KGaA, Merck & Co., and Novartis;

the cost, timing, and outcome of regulatory reviews;

the receptivity of the capital markets to financings by biotechnology companies; and

our ability to enter into new strategic collaborations with biotechnology and pharmaceutical companies and the success of such collaborations.

In addition, increases in expenses or delays in clinical development may adversely impact our cash position and require further cost reductions. Additional financing may not be available to us when we need it or may not be available to us on favorable terms. 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, drug candidates or drugs that we would otherwise pursue on our own. In addition, if we raise additional funds by issuing equity securities, our then existing stockholders will experience dilution. Debt financing, if available, may involve agreements

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that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends, and are likely to include rights that are senior to the holders of our common stock. Any additional debt financing or equity that we raise may contain terms, such as liquidation and other preferences, or liens or other restrictions on our assets, which are not favorable to us or our stockholders. The terms of any financing may adversely affect the holdings or the rights of existing stockholders. If we are unable to obtain adequate funding on a timely basis or at all, we may be required to significantly curtail one or more of our discovery or development programs and possibly relinquish rights to portions of our technology or products.

*Contractual Obligations*

We have contractual obligations in the form of operating and capital leases. In March 2008, we paid approximately \$1,189,000 to General Electric Capital Corporation as payment in full of all obligations outstanding under our note with GE. The payment represented approximately \$1,121,000 of principal amount outstanding plus accrued interest through the date of payment and a prepayment premium. The note has been cancelled.

**ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK**

As of September 30, 2008, we had approximately \$248,000 of receivables payable in Euros. We had no other assets and liabilities related to non-dollar-denominated currencies as of September 30, 2008.

We maintain investments in accordance with our investment policy. The primary objectives of our investment activities are to preserve principal, maintain proper liquidity to meet operating needs and maximize yields. Although our investments are subject to credit risk, our investment policy specifies credit quality standards for our investments and limits the amount of credit exposure from any single issue, issuer or type of investment. We regularly review our investment holdings in light of the then current economic environment. We do not own auction rate securities or derivative financial investment instruments in our investment portfolio.

Based on a hypothetical ten percent adverse movement in interest rates, the potential losses in future earnings, fair value of risk sensitive financial instruments, and cash flows are immaterial, although the actual effects may differ materially from the hypothetical analysis.

**ITEM 4. CONTROLS AND PROCEDURES**

- (a) *Evaluation of Disclosure Controls and Procedures.* Our management, with the participation of our Chief Executive Officer and our Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures as of period covered by this report. The term disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company's management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of September 30, 2008, our Chief Executive Officer and Chief Financial Officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.
- (b) *Changes in Internal Controls.* No change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Securities Exchange Act) occurred during the fiscal quarter ended September 30, 2008 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.



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**IDERA PHARMACEUTICALS, INC.  
PART II OTHER INFORMATION**

**ITEM 1A. RISK FACTORS**

*Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below in addition to the other information included or incorporated by reference in this quarterly report on Form 10-Q before purchasing our common stock. If any of the following risks actually occurs, our business, financial condition or results of operations would likely suffer, possibly materially. In that case, the trading price of our common stock could fall, and you may lose all or part of the money you paid to buy our common stock.*

**Risks Relating to Our Financial Results and Need for Financing**

***We have incurred substantial losses and expect to continue to incur losses. We will not be successful unless we reverse this trend.***

We have incurred losses in every year since our inception, except for 2002 when our recognition of revenues under a license and collaboration agreement resulted in our reporting net income for that year. As of September 30, 2008, we had an accumulated deficit of \$341,589,000. We have incurred losses of \$81,396,000 since January 1, 2001. We also incurred losses of \$260,193,000 prior to December 31, 2000 during which time we were primarily involved in the development of antisense technology. We may incur substantial operating losses in future periods. These losses, among other things, have had and will continue to have an adverse effect on our stockholders' equity, total assets and working capital.

We have never had any products of our own available for commercial sale and have received no revenues from the sale of drugs. To date, almost all of our revenues have been from collaborative and license agreements. We have devoted substantially all of our efforts to research and development, including clinical trials, and we have not completed development of any drugs. Because of the numerous risks and uncertainties associated with developing drugs, we are unable to predict the extent of any future losses, whether or when any of our products will become commercially available, or when we will become profitable, if at all.

***We will need additional financing, which may be difficult to obtain. Our failure to obtain necessary financing or doing so on unattractive terms could adversely affect our research and development programs and other operations.***

We will require substantial funds to conduct research and development, including preclinical testing and clinical trials of our drug candidates. We will also require substantial funds to conduct regulatory activities and to establish commercial manufacturing, marketing and sales capabilities. We believe that, based on our current operating plan, our existing cash, cash equivalents and investments will be sufficient to fund our operations at least through March 31, 2010.

We will need to raise additional funds to operate our business beyond such time, including completing any on-going clinical trials involving IMO-2125 or other drug candidates we may develop. We believe that the key factors that will affect our ability to obtain additional funding are:

the success of our clinical and preclinical development programs;

the success of our existing strategic collaborations with Merck KGaA, Merck & Co. and Novartis;

the cost, timing and outcome of regulatory reviews;

the receptivity of the capital markets to financings by biotechnology companies; and

our ability to enter into additional strategic collaborations with biotechnology and pharmaceutical companies and the success of such collaborations.

If we cannot obtain adequate funds, we may terminate, modify or delay preclinical or clinical trials of one or more of our drug candidates, fail to establish or delay the establishment of manufacturing, sale or marketing capabilities, or curtail research and development programs for new drug candidates.

Additional financing may not be available to us when we need it or may not be available to us on favorable terms. 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, drug candidates or drugs that we would otherwise pursue on our own. In addition, if we raise additional funds by issuing equity securities, our then existing stockholders will experience dilution. The terms of any financing may adversely affect the holdings

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or the rights of existing stockholders. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends, and are likely to include rights that are senior to the holders of our common stock. Any additional debt financing or equity that we raise may contain terms, such as liquidation and other preferences, or liens or other restrictions on our assets, which are not favorable to us or our stockholders. If we are unable to obtain adequate funding on a timely basis or at all, we may be required to significantly curtail one or more of our discovery or development programs or possibly relinquish rights to portions of our technology or products. For example, we significantly curtailed expenditures on our research and development programs during 1999 and 2000 because we did not have sufficient funds available to advance these programs at planned levels.

**Risks Relating to Our Business, Strategy and Industry**

***We are depending heavily on the success of our lead drug candidate for infectious diseases, IMO-2125, and our collaborative programs. If we or our collaborators are unable to successfully develop and commercialize our drug candidates, or experience significant delays in doing so, our business will be materially harmed.***

We are investing a significant portion of our time and financial resources in the development of our clinical stage lead drug candidate for infectious diseases, IMO-2125. We anticipate that our ability to generate product revenues will depend heavily on the successful development and commercialization of IMO-2125 and other drug candidates including drug candidates being developed by our collaborators. The commercial success of these drug candidates will depend on several factors, including the following:

acceptable safety profile during clinical trials;

demonstration of statistically recognized efficacy in clinical trials;

ability to combine IMO-2125 safely and successfully with other antiviral agents;

receipt of marketing approvals from the FDA and equivalent foreign regulatory authorities;

establishment of commercial manufacturing arrangements with third-party manufacturers;

the successful commercial launch of the drug candidates, whether alone or in collaboration with other products;

acceptance of the products by the medical community and third-party payors;

competition from other companies and their therapies;

successful protection of our intellectual property rights from competing products in the United States and abroad; and

a continued acceptable safety and efficacy profile of our drug candidates following approval.

Our efforts to commercialize IMO-2125 are at an early stage, as we are currently conducting the initial Phase 1 safety clinical trial of this drug candidate in a defined patient population. If we are not successful in commercializing this or our other drug candidates, or are significantly delayed in doing so, our business will be materially harmed.

***If our clinical trials are unsuccessful, or if they are delayed or terminated, we may not be able to develop and commercialize our products.***

In order to obtain regulatory approvals for the commercial sale of our products, we are required to complete extensive clinical trials in humans to demonstrate the safety and efficacy of our drug candidates. Clinical trials are lengthy, complex and expensive processes with uncertain results. We may not be able to complete any clinical trial of a potential product within any specified time period. Moreover, clinical trials may not show our potential products to be both safe and efficacious. The FDA and other regulatory authorities may not approve any of our potential products for any indication. We may not be able to obtain authority from the FDA or other equivalent foreign regulatory

agencies to complete these trials or commence and complete any other clinical trials.

The results from preclinical testing of a drug candidate that is under development may not be predictive of results that will be obtained in human clinical trials. In addition, the results of early human clinical trials may not be predictive of results that will be obtained in larger scale, advanced stage clinical trials. Furthermore, interim results of a clinical trial do not necessarily predict final results and failure of any of our clinical trials can occur at any stage of testing. Companies in the biotechnology and pharmaceutical industries, including companies with greater experience in preclinical testing and clinical trials than we have, have suffered significant setbacks in clinical trials, even after demonstrating promising results in earlier trials. For instance, in October 2008 we announced that the primary objective of tumor response based on RECIST was not achieved in our Phase 2a clinical study of IMO-2055 monotherapy

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in patients with metastatic or recurrent clear cell renal carcinoma. Moreover, companies developing drugs based on TLR technologies have experienced setbacks in clinical trials. For example in June 2007, Coley Pharmaceutical Group, which since has been acquired by Pfizer, Inc., discontinued four clinical trials in lung cancer for PF-3512676, its investigational TLR9 agonist compound, in combination with cytotoxic chemotherapy. In addition, in January 2007, Coley Pharmaceutical Group announced that it had suspended its development of a TLR9 agonist, Actilon<sup>®</sup>, for hepatitis C virus infection. In July 2007, Anadys Pharmaceuticals, Inc. and its partner Novartis announced that they had decided to discontinue the development of ANA975, the investigational TLR7 agonist compound for hepatitis C virus infection. In March 2008, Dynavax Technologies Corporation announced that two investigational new drug applications for its investigational hepatitis B vaccine, HEPLISAV<sup>®</sup>, which includes a proprietary TLR9 agonist, had been placed on clinical hold by the FDA. In October 2008, Dynavax Technologies announced that the clinical hold remains in effect. Dynavax Technologies also announced in May 2008 discontinuation of the clinical development program for TOLAMBA<sup>®</sup>, which comprises a TLR9 agonist covalently attached to ragweed antigen.

There are to date few data on the long-term clinical safety of our lead compounds under conditions of prolonged use in humans, or on any long-term consequences subsequent to human use. Effects seen in preclinical studies, even if not observed in clinical trials, may result in limitations or restrictions on our clinical trials. We may experience numerous unforeseen events during, or as a result of, preclinical testing, nonclinical testing, or the clinical trial process that could delay or inhibit our ability to receive regulatory approval or to commercialize our products, including:

regulators or Institutional Review Boards may not authorize us to commence a clinical trial or conduct a clinical trial at a prospective trial site;

nonclinical or clinical data may not be readily interpreted, which may lead to delays and/or misinterpretation;

our nonclinical tests, including toxicology studies, or clinical trials may produce negative or inconclusive results, and we may decide, or regulators may require us, to conduct additional nonclinical testing or clinical trials or we may abandon projects that we expect may not be promising;

the rate of enrollment or retention of patients in our clinical trials may be less than expected;

we might have to suspend or terminate our clinical trials if the participating patients experience serious adverse events or undesirable side effects or are exposed to unacceptable health risks;

regulators or Institutional Review Boards may require that we hold, suspend or terminate clinical research for various reasons, including noncompliance with regulatory requirements, including any issues identified through inspections of manufacturing or clinical trial operations or clinical trial sites;

regulators may hold or suspend our clinical trials while collecting supplemental information on, or clarification of, our clinical trials or other clinical trials, including trials conducted in other countries or trials conducted by other companies;

we, along with our collaborators and subcontractors, may not employ, in any capacity, persons who have been debarred under the FDA's Application Integrity Policy. Employment of such debarred persons, even if inadvertently, may result in delays in the FDA's review or approval of our products, or the rejection of data developed with the involvement of such person(s);

the cost of our clinical trials may be greater than we currently anticipate; and

our products may not cause the desired effects or may cause undesirable side effects or our products may have other unexpected characteristics.

As an example, in 1997, after reviewing the results from the clinical trial of GEM91, a first generation antisense compound and our lead drug candidate at the time, we determined not to continue the development of GEM91 and suspended clinical trials of this drug candidate.

The rate of completion of clinical trials is dependent in part upon the rate of enrollment of patients. For example, in Stage A of our Phase 2 trial of IMO-2055 in renal cell cancer, enrollment was slower than projected due to the approval of two new therapies, Sutent® and Nexavar®, developed by other companies for treatment of the same patient populations. Patient accrual is a function of many factors, including:

the size of the patient population;

the proximity of patients to clinical sites;

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the eligibility criteria for the study;

the nature of the study;

the existence of competitive clinical trials; and

the availability of alternative treatments.

We do not know whether clinical trials will begin as planned, will need to be restructured or will be completed on schedule, if at all. Significant clinical trial delays also could allow our competitors to bring products to market before we do and impair our ability to commercialize our products.

***Delays in commencing clinical trials of potential products could increase our costs, delay any potential revenues and reduce the probability that a potential product will receive regulatory approval.***

Our drug candidates and our collaborators' drug candidates will require preclinical and other nonclinical testing and extensive clinical trials prior to submission of any regulatory application for commercial sales. In conducting clinical trials, we cannot be certain that any planned clinical trial will begin on time, if at all. Delays in commencing clinical trials of potential products could increase our product development costs, delay any potential revenues and reduce the probability that a potential product will receive regulatory approval.

Commencing clinical trials may be delayed for a number of reasons, including delays in:

manufacturing sufficient quantities of drug candidate that satisfy the required quality standards for use in clinical trials;

demonstrating sufficient safety to obtain regulatory approval for conducting a clinical trial;

reaching an agreement with any collaborators on all aspects of the clinical trial;

reaching agreement with contract research organizations, if any, and clinical trial sites on all aspects of the clinical trial;

resolving any objections from the FDA or any regulatory authority on an IND application or proposed clinical trial design;

obtaining Institutional Review Board approval for conducting a clinical trial at a prospective site; and

enrolling patients in order to commence the clinical trial.

***The technologies on which we rely are unproven and may not result in any approved and marketable products.***

Our technologies or therapeutic approaches are relatively new and unproven. We have focused our efforts on the research and development of RNA- and DNA-based compounds targeted to TLRs. Neither we nor any other company have obtained regulatory approval to market such compounds as therapeutic drugs, and no such products currently are being marketed. It is unknown whether the results of preclinical studies with TLR-targeted compounds will be indicative of results that may be obtained in clinical trials, and results we have obtained in the initial small-scale clinical trials we have conducted to date may not be predictive of results in subsequent large-scale trials. Further, the chemical and pharmacological properties of RNA- and DNA-based compounds targeted to TLRs may not be fully recognized in preclinical and small-scale clinical trials, and such compounds may interact with human biological systems in unforeseen, ineffective, or harmful ways that we have not yet identified. As a result of these factors, we may never succeed in obtaining a regulatory approval to market any product. Furthermore, the commercial success of any of our products for which we may obtain marketing approval from the FDA or other regulatory authorities will depend upon their acceptance by the medical community and third party payors as clinically useful, safe, and cost-effective. In addition, if products based upon TLR technology being developed by our competitors have negative clinical trial results or otherwise are viewed negatively, the perception of our TLR technology and market acceptance

of our products could be impacted negatively. For example, Dynavax Technologies announced in March 2008 that two investigational new drug applications for its investigational hepatitis B vaccine, HEPLISAV, which includes a proprietary TLR9 agonist, had been placed on clinical hold by the FDA. In October 2008, Dynavax Technologies announced that the clinical hold remains in effect. Dynavax Technologies also announced in May 2008 discontinuation of the clinical development program for TOLAMBA, which comprises a TLR9 agonist covalently attached to a ragweed antigen. In addition, we are pursuing an indication for treatment of chronic hepatitis C virus infection for IMO-2125 and commenced a Phase 1 clinical trial of IMO-2125 in patients with chronic hepatitis C virus infection in the third quarter of 2007. Pfizer, Inc. and Anadys Pharmaceuticals, Inc. each have performed early clinical trials of TLR-targeted compounds for the treatment of chronic hepatitis C virus infection, and both programs have been discontinued. We cannot be certain whether such discontinuations will negatively impact the perception of our TLR technology.



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Our efforts to educate the medical community on our potentially unique approaches may require greater resources than would be typically required for products based on conventional technologies or therapeutic approaches. The safety, efficacy, convenience and cost-effectiveness of our products as compared to competitive products will also affect market acceptance.

***We face substantial competition, which may result in others discovering, developing or commercializing drugs before or more successfully than us.***

The biotechnology industry is highly competitive and characterized by rapid and significant technological change. We face, and will continue to face, intense competition from pharmaceutical and biotechnology companies, as well as academic and research institutions and government agencies. Some of these organizations are pursuing products based on technologies similar to our technologies. Other of these organizations have developed and are marketing products, or are pursuing other technological approaches designed to produce products, that are competitive with our drug candidates in the therapeutic effect these competitive products have on diseases targeted by our drug candidates. Our competitors may discover, develop or commercialize products or other novel technologies that are more effective, safer or less costly than any that we are developing. Our competitors may also obtain FDA or other regulatory approval for their products more rapidly than we may obtain approval for ours. As examples, the FDA approved drugs developed by other companies, Sutent and Nexavar, for use in renal cell cancer, which is the indication for which we are evaluating IMO-2055 monotherapy in our Phase 2 trial. Pfizer, Inc. is conducting clinical trials of PF-3512676, a TLR9 agonist for treating cancer. In addition, Dynavax Technologies has announced initiation of a clinical trial for its TLR9 agonist 1018 ISS for cancer. Both Pfizer, Inc., and Dynavax Technologies have clinical programs, either independently or with collaborators, in therapeutic fields other than cancer, such as asthma and allergy treatments and for use as vaccine adjuvants, that also potentially compete with our drug candidates.

Many of our competitors are substantially larger than we are and have greater capital resources, research and development staffs and facilities than we have. In addition, many of our competitors are more experienced than we are in drug discovery, development and commercialization, obtaining regulatory approvals and drug manufacturing and marketing.

We anticipate that the competition with our products and technologies will be based on a number of factors including product efficacy, safety, availability and price. The timing of market introduction of our products and competitive products will also affect competition among products. We expect the relative speed with which we can develop products, complete the clinical trials and approval processes and supply commercial quantities of the products to the market to be important competitive factors. Our competitive position will also depend upon our ability to attract and retain qualified personnel, to obtain patent protection or otherwise develop proprietary products or processes and protect our intellectual property, and to secure sufficient capital resources for the period between technological conception and commercial sales.

***Competition for technical and management personnel is intense in our industry, and we may not be able to sustain our operations or grow if we are unable to attract and retain key personnel.***

Our success is highly dependent on the retention of principal members of our technical and management staff, including Dr. Sudhir Agrawal. Dr. Agrawal serves as our President, Chief Executive Officer and Chief Scientific Officer. Dr. Agrawal has made significant contributions to the field of oligonucleotide-based drug candidates, and has led the discovery and development of our compounds targeted to TLRs. He is named as an inventor on over 400 patents and patent applications worldwide. Dr. Agrawal provides us leadership for management and research and development activities. The loss of Dr. Agrawal's services would be detrimental to our ongoing scientific progress and the execution of our business plan.

We are a party to an employment agreement with Dr. Agrawal that expires on October 19, 2011, but automatically extends annually for an additional year. This agreement may be terminated by us or Dr. Agrawal for any reason or no reason at any time upon notice to the other party. We do not carry key man life insurance for Dr. Agrawal.

Furthermore, our future growth will require hiring a number of qualified technical and management personnel. Accordingly, recruiting and retaining such personnel in the future will be critical to our success. There is intense competition from other companies and research and academic institutions for qualified personnel in the areas of our activities. If we are not able to continue to attract and retain, on acceptable terms, the qualified personnel necessary for

the continued development of our business, we may not be able to sustain our operations or growth.

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**Regulatory Risks**

***We may not be able to obtain marketing approval for products resulting from our development efforts.***

All of the drug candidates that we are developing or may develop in the future will require additional research and development, extensive preclinical studies and clinical trials, and regulatory approval prior to any commercial sales. This process is lengthy, often taking a number of years, is uncertain, and is expensive. Since our inception, we have conducted clinical trials of a number of compounds. Currently, we are conducting clinical trials of IMO-2125 and IMO-2055.

We may need to address a number of technological challenges in order to complete development of our products. Moreover, these products may not be effective in treating any disease or may prove to have undesirable or unintended side effects, unintended alteration of the immune system over time, toxicities or other characteristics that may preclude our obtaining regulatory approval or prevent or limit commercial use.

***We are subject to comprehensive regulatory requirements, which are costly and time consuming to comply with; if we fail to comply with these requirements, we could be subject to adverse consequences and penalties.***

The testing, manufacturing, labeling, advertising, promotion, export and marketing of our products are subject to extensive regulation by governmental authorities in Europe, the United States and elsewhere throughout the world.

In general, submission of materials requesting permission to conduct clinical trials may not result in authorization by the FDA or any equivalent foreign regulatory agency to commence clinical trials. Further, permission to continue ongoing trials may be withdrawn by the FDA or other regulatory agencies at any time after initiation, based on new information available after the initial authorization to commence clinical trials. In addition, submission of an application for marketing approval to the relevant regulatory agency following completion of clinical trials may not result in the regulatory agency approving the application if applicable regulatory criteria are not satisfied, and may result in the regulatory agency requiring additional testing or information.

Any regulatory approval of a product may contain limitations on the indicated uses for which the product may be marketed or requirements for costly post-marketing testing and surveillance to monitor the safety or efficacy of the product. Any product for which we obtain marketing approval, along with the facilities at which the product is manufactured, any post-approval clinical data and any advertising and promotional activities for the product will be subject to continual review and periodic inspections by the FDA and other regulatory agencies.

Both before and after approval is obtained, violations of regulatory requirements may result in:

- the regulatory agency's delay in approving, or refusal to approve, an application for marketing of a product;
- restrictions on our products or the manufacturing of our products;
- withdrawal of our products from the market;
- warning letters;
- voluntary or mandatory recall;
- fines;
- suspension or withdrawal of regulatory approvals;
- product seizure;
- refusal to permit the import or export of our products;
- injunctions or the imposition of civil penalties; and
- criminal penalties.

***We have only limited experience in regulatory affairs and our products are based on new technologies; these factors may affect our ability or the time we require to obtain necessary regulatory approvals.***

We have only limited experience in filing the applications necessary to gain regulatory approvals. Moreover, the products that result from our research and development programs will likely be based on new technologies and new therapeutic approaches that have not been extensively tested in humans. The regulatory requirements governing these types of products may be more rigorous than for conventional drugs. As a result, we may experience a longer regulatory process in connection with obtaining regulatory approvals of any product that we develop.

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**Risks Relating to Collaborators**

***We need to establish additional collaborative relationships in order to succeed.***

If we do not reach agreements with additional collaborators in the future, we may fail to meet our business objectives. We believe collaborations can provide us with expertise and resources. If we cannot enter into additional collaboration agreements, we may not be able to obtain the expertise and resources necessary to achieve our business objectives. We face, and will continue to face, significant competition in seeking appropriate collaborators. Moreover, collaboration arrangements are complex and time consuming to negotiate, document and implement. We may not be successful in our efforts to establish and implement collaborations or other alternative arrangements. The terms of any collaborations or other arrangements that we establish, if any, may not be favorable to us.

The failure of these collaborative relationships could delay our drug development or impair commercialization of our products and could materially harm our business and might accelerate our need for additional capital.

Any collaboration that we enter into may not be successful. The success of our collaboration arrangements, if any, will depend heavily on the efforts and activities of our collaborators. Possible future collaborations have risks, including the following:

disputes may arise in the future with respect to the ownership of rights to technology developed with future collaborators;

disagreements with future collaborators could delay or terminate the research, development or commercialization of products, or result in litigation or arbitration;

future collaboration agreements are likely to be for fixed terms and subject to termination by our collaborators in the event of a material breach or lack of scientific progress by us;

future collaborators are likely to have the first right to maintain or defend our intellectual property rights and, although we would likely have the right to assume the maintenance and defense of our intellectual property rights if our collaborators do not, our ability to do so may be compromised by our collaborators' acts or omissions;

future collaborators may challenge our intellectual property rights or may utilize our intellectual property rights in such a way as to invite litigation that could jeopardize or invalidate our intellectual property rights or expose us to potential liability;

future collaborators may change the focus of their development and commercialization efforts. Pharmaceutical and biotechnology companies historically have re-evaluated their priorities following mergers and consolidations, which have been common in recent years in these industries. The ability of our products to reach their potential could be limited if future collaborators decrease or fail to increase spending relating to such products;

future collaborators may underfund or not commit sufficient resources to the testing, marketing, distribution or development of our products; and

future collaborators may develop alternative products either on their own or in collaboration with others, or encounter conflicts of interest or changes in business strategy or other business issues, which could adversely affect their willingness or ability to fulfill their obligations to us.

Given these risks, it is possible that any collaborative arrangements into which we enter may not be successful.

***Our existing collaborations and any collaborations we enter into in the future may not be successful.***

An important element of our business strategy includes entering into strategic collaborations with corporate collaborators, primarily large pharmaceutical companies, for the development, commercialization, marketing and distribution of some of our drug candidates. In December 2007, we entered into an exclusive, worldwide license

agreement with Merck KGaA to research, develop, and commercialize products containing our TLR9 agonists for treatment of cancer, excluding cancer vaccines. In December 2006, we entered into an exclusive license and research collaboration with Merck & Co. to research, develop, and commercialize vaccine products containing our TLR7, 8, and 9 agonists in the fields of cancer, infectious diseases, and Alzheimer's disease. In May 2005, we entered into a collaboration with Novartis to discover, develop and potentially commercialize TLR9 agonists that are identified as potential treatments for asthma and allergies. The failure of these collaborations or any others we enter into in the future could delay our drug development or impair commercialization of our products and could materially harm our business and might accelerate our need for additional capital.

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The success of our collaboration arrangements, if any, will depend heavily on the efforts and activities of our collaborators. Our existing collaborations have risks, including the following:

our collaborators control the development of the drug candidates being developed with our technologies and compounds including the timing of development;

our collaborators may control the public release of information regarding the developments, and we may not be able to make announcements or data presentations on a schedule favorable to us;

disputes may arise in the future with respect to the ownership of rights to technology developed with our collaborators;

disagreements with our collaborators could delay or terminate the research, development or commercialization of products, or result in litigation or arbitration;

we may have difficulty enforcing the contracts if any of our collaborators fail to perform;

our collaborators may terminate their collaborations with us, which could make it difficult for us to attract new collaborators or adversely affect the perception of us in the business or financial communities;

our collaboration agreements are likely to be for fixed terms and subject to termination by our collaborators in the event of a material breach or lack of scientific progress by us;

our collaborators may have the first right to maintain or defend our intellectual property rights and, although we would likely have the right to assume the maintenance and defense of our intellectual property rights if our collaborators do not, our ability to do so may be compromised by our collaborators' acts or omissions;

our collaborators may utilize our intellectual property rights in such a way as to invite litigation that could jeopardize or invalidate our intellectual property rights or expose us to potential liability;

our collaborators may change the focus of their development and commercialization efforts. Pharmaceutical and biotechnology companies historically have re-evaluated their priorities following mergers and consolidations, which have been common in recent years in these industries. The ability of our products to reach their potential could be limited if our collaborators decrease or fail to increase spending relating to such products;

our collaborators may underfund or not commit sufficient resources to the testing, marketing, distribution or development of our products; and

our collaborators may develop alternative products either on their own or in collaboration with others, or encounter conflicts of interest or changes in business strategy or other business issues, which could adversely affect their willingness or ability to fulfill their obligations to us.

Collaborations with pharmaceutical companies and other third parties often are terminated or allowed to expire by the other party. Such terminations or expirations may adversely affect us financially and could harm our business reputation in the event we elect to pursue collaborations that ultimately expire or are terminated in such a manner.

### **Risks Relating to Intellectual Property**

***If we are unable to obtain patent protection for our discoveries, the value of our technology and products will be adversely affected.***

Our patent positions, and those of other drug discovery companies, are generally uncertain and involve complex legal, scientific and factual questions. Our ability to develop and commercialize drugs depends in significant part on

our ability to:

obtain patents;

obtain licenses to the proprietary rights of others on commercially reasonable terms;

operate without infringing upon the proprietary rights of others;

prevent others from infringing on our proprietary rights; and

protect trade secrets.



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We do not know whether any of our patent applications or those patent applications that we license will result in the issuance of any patents. Our issued patents and those that may be issued in the future, or those licensed to us, may be challenged, invalidated or circumvented, and the rights granted thereunder may not provide us proprietary protection or competitive advantages against competitors with similar technology. Furthermore, our competitors may independently develop similar technologies or duplicate any technology developed by us. Because of the extensive time required for development, testing and regulatory review of a potential product, it is possible that, before any of our products can be commercialized, any related patent may expire or remain in force for only a short period following commercialization, thus reducing any advantage provided by the patent.

Because patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after filing, or in some cases not at all, and because publications of discoveries in the scientific literature often lag behind actual discoveries, neither we nor our licensors can be certain that we or they were the first to make the inventions claimed in issued patents or pending patent applications, or that we or they were the first to file for protection of the inventions set forth in these patent applications.

***Third parties may own or control patents or patent applications and require us to seek licenses, which could increase our development and commercialization costs, or prevent us from developing or marketing products.***

We may not have rights under some patents or patent applications related to our products. Third parties may own or control these patents and patent applications in the United States and abroad. Therefore, in some cases, to develop, manufacture, sell or import some of our products, we or our collaborators may choose to seek, or be required to seek, licenses under third party patents issued in the United States and abroad or under patents that might issue from United States and foreign patent applications. In such an event, we would be required to pay license fees or royalties or both to the licensor. If licenses are not available to us on acceptable terms, we or our collaborators may not be able to develop, manufacture, sell or import these products.

***We may lose our rights to patents, patent applications or technologies of third parties if our licenses from these third parties are terminated. In such an event, we might not be able to develop or commercialize products covered by the licenses.***

Currently, we have not in-licensed any patents or patent applications related to our TLR-targeted drug candidate programs. However in the field of antisense technology we are party to five royalty-bearing license agreements under which we have acquired rights to patents, patent applications and technology of third parties. Under these licenses we are obligated to pay royalties on net sales by us of products or processes covered by a valid claim of a patent or patent application licensed to us. We also are required in some cases to pay a specified percentage of any sublicense income that we may receive. These licenses impose various commercialization, sublicensing, insurance and other obligations on us.

Our failure to comply with these requirements could result in termination of the licenses. These licenses generally will otherwise remain in effect until the expiration of all valid claims of the patents covered by such licenses or upon earlier termination by the parties. The issued patents covered by these licenses expire at various dates ranging from 2014 to 2022. If one or more of these licenses is terminated, we may be delayed in our efforts, or be unable, to develop and market the products that are covered by the applicable license or licenses.

***We may become involved in expensive patent litigation or other proceedings, which could result in our incurring substantial costs and expenses or substantial liability for damages or require us to stop our development and commercialization efforts.***

There has been substantial litigation and other proceedings regarding patent and other intellectual property rights in the biotechnology industry. We may become a party to various types of patent litigation or other proceedings regarding intellectual property rights from time to time even under circumstances where we are not practicing and do not intend to practice any of the intellectual property involved in the proceedings. For instance, in 2002, 2003, and 2005, we became involved in interference proceedings declared by the United States Patent and Trademark Office for certain of our antisense and ribozyme patents. All of these interferences have since been resolved. We are neither practicing nor intending to practice the intellectual property that is associated with any of these interference proceedings.

The cost to us of any patent litigation or other proceeding even if resolved in our favor, could be substantial. Some of our competitors may be able to sustain the cost of such litigation or proceedings more effectively than we can

because of their substantially greater financial resources. If any patent litigation or other proceeding is resolved against us, we or our collaborators may be enjoined from developing, manufacturing, selling or importing our drugs without a license from the other party and we may be held liable for significant damages. We may not be able to obtain any required license on commercially acceptable terms or at all.

Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could have a material adverse effect on our ability to compete in the marketplace. Patent litigation and other proceedings may also absorb significant management time.

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**Risks Relating to Product Manufacturing, Marketing and Sales and Reliance on Third Parties**

*Because we have limited manufacturing experience, facilities or infrastructure, we are dependent on third-party manufacturers to manufacture products for us. If we cannot rely on third-party manufacturers, we will be required to incur significant costs and devote significant efforts to establish our own manufacturing facilities and capabilities.*

We have limited manufacturing experience and no manufacturing facilities, infrastructure or clinical or commercial scale manufacturing capabilities. In order to continue to develop our products, apply for regulatory approvals and ultimately commercialize products, we need to develop, contract for or otherwise arrange for the necessary manufacturing capabilities.

We currently rely upon third parties to produce material for nonclinical and clinical testing purposes and expect to continue to do so in the future. We also expect to rely upon third parties to produce materials that may be required for the commercial production of our products. Our current and anticipated future dependence upon others for the manufacture of our drug candidates may adversely affect our future profit margins and our ability to develop drug candidates and commercialize any drug candidates on a timely and competitive basis. We currently do not have any long term supply contracts and rely on only one contract manufacturer.

There are a limited number of manufacturers that operate under the FDA's current good manufacturing practices, or cGMP, regulations capable of manufacturing our products. As a result, we may have difficulty finding manufacturers for our products with adequate capacity for our needs. If we are unable to arrange for third party manufacturing of our products on a timely basis, or to do so on commercially reasonable terms, we may not be able to complete development of our products or market them.

Reliance on third party manufacturers entails risks to which we would not be subject if we manufactured products ourselves, including:

reliance on the third party for regulatory compliance and quality assurance;

the possibility of breach of the manufacturing agreement by the third party because of factors beyond our control;

the possibility of termination or nonrenewal of the agreement by the third party, based on its own business priorities, at a time that is costly or inconvenient for us;

the potential that third party manufacturers will develop know-how owned by such third party in connection with the production of our products that is necessary for the manufacture of our products; and

reliance upon third party manufacturers to assist us in preventing inadvertent disclosure or theft of our proprietary knowledge.

Additionally, contract manufacturers may not be able to manufacture our TLR-targeted drug candidates at a cost or in quantities necessary to make them commercially viable. To date, our third-party manufacturers have met our manufacturing requirements, but we cannot be assured that they will continue to do so. Furthermore, changes in the manufacturing process or procedure, including a change in the location where the drug is manufactured or a change of a third-party manufacturer, may require prior FDA review and approval in accordance with the FDA's cGMP regulations. There are comparable foreign requirements. This review may be costly and time-consuming and could delay or prevent the launch of a product. The FDA or similar foreign regulatory agencies at any time may also implement new standards, or change their interpretation and enforcement of existing standards for manufacture, packaging or testing of products. If we or our contract manufacturers are unable to comply, we or they may be subject to regulatory action, civil actions or penalties.

*We have no experience selling, marketing or distributing products and no internal capability to do so.*

If we receive regulatory approval to commence commercial sales of any of our products, we will face competition with respect to commercial sales, marketing and distribution. These are areas in which we have no experience. To market any of our products directly, we would need to develop a marketing and sales force with technical expertise

and with supporting distribution capability. In particular, we would need to recruit a large number of experienced marketing and sales personnel. Alternatively, we could engage a pharmaceutical or other healthcare company with an existing distribution system and direct sales force to assist us. However, to the extent we entered into such arrangements, we would be dependent on the efforts of third parties. If we are unable to establish sales and distribution capabilities, whether internally or in reliance on third parties, our business would suffer materially.

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***If third parties on whom we rely for clinical trials do not perform as contractually required or as we expect, we may not be able to obtain regulatory approval for or commercialize our products and our business may suffer.***

We do not have the ability to independently conduct the clinical trials required to obtain regulatory approval for our products. We depend on independent clinical investigators, contract research organizations and other third party service providers in the conduct of the clinical trials of our products and expect to continue to do so. We have contracted with contract research organizations to manage our current Phase 1 clinical trial of IMO-2125 in patients with chronic hepatitis C virus infection. We rely heavily on these parties for successful execution of our clinical trials, but do not control many aspects of their activities. We are responsible for ensuring that each of our clinical trials is conducted in accordance with the general investigational plan and protocols for the trial. Moreover, the FDA requires us to comply with standards, commonly referred to as good clinical practices, for conducting, recording and reporting clinical trials to assure that data and reported results are credible and accurate and that the rights, integrity and confidentiality of trial participants are protected. Our reliance on third parties that we do not control does not relieve us of these responsibilities and requirements. Third parties may not complete activities on schedule or may not conduct our clinical trials in accordance with regulatory requirements or our stated protocols. The failure of these third parties to carry out their obligations could delay or prevent the development, approval and commercialization of our products. If we seek to conduct any of these activities ourselves in the future, we will need to recruit appropriately trained personnel and add to our infrastructure.

***The commercial success of any drug candidates that we may develop will depend upon the degree of market acceptance by physicians, patients, third party payors and others in the medical community.***

Any products that we ultimately bring to the market, if they receive marketing approval, may not gain market acceptance by physicians, patients, third party payors and others in the medical community. If these products do not achieve an adequate level of acceptance, we may not generate significant product revenue and we may not become profitable. The degree of market acceptance of our drug candidates, if approved for commercial sale, will depend on a number of factors, including:

- the prevalence and severity of any side effects, including any limitations or warnings contained in the product's approved labeling;

- the efficacy and potential advantages over alternative treatments;

- the ability to offer our drug candidates for sale at competitive prices;

- relative convenience and ease of administration;

- the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;

- the strength of marketing and distribution support and the timing of market introduction of competitive products; and

- publicity concerning our products or competing products and treatments.

Even if a potential product displays a favorable efficacy and safety profile, market acceptance of the product will not be known until after it is launched. Our efforts to educate the medical community and third party payors on the benefits of our drug candidates may require significant resources and may never be successful. Such efforts to educate the marketplace may require more resources than are required by conventional technologies marketed by our competitors.

***If we are unable to obtain adequate reimbursement from third party payors for any products that we may develop or acceptable prices for those products, our revenues and prospects for profitability will suffer.***

Most patients rely on Medicare, Medicaid, private health insurers, and other third party payors to pay for their medical needs, including any drugs we may market. If third party payors do not provide adequate coverage or

reimbursement for any products that we may develop, our revenues and prospects for profitability will suffer. Congress enacted a limited prescription drug benefit for Medicare recipients in the Medicare Prescription Drug and Modernization Act of 2003. While the program established by this statute may increase demand for our products, if we participate in this program, our prices will be negotiated with drug procurement organizations for Medicare beneficiaries and are likely to be lower than we might otherwise obtain. Non-Medicare third party drug procurement organizations may also base the price they are willing to pay on the rate paid by drug procurement organizations for Medicare beneficiaries.

A primary trend in the United States healthcare industry is toward cost containment. In addition, in some foreign countries, particularly the countries of the European Union, the pricing of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take six months or longer after the receipt of regulatory marketing approval for a product. To obtain reimbursement or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost effectiveness of our drug candidates or products to other available therapies. The conduct of such a

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clinical trial could be expensive and result in delays in commercialization of our products. These further clinical trials would require additional time, resources and expenses. If reimbursement of our products is unavailable or limited in scope or amount, or if pricing is set at unsatisfactory levels, our prospects for generating revenue, if any, could be adversely affected and our business may suffer.

Third party payors are challenging the prices charged for medical products and services, and many third party payors limit reimbursement for newly-approved healthcare products. In particular, third party payors may limit the indications for which they will reimburse patients who use any products that we may develop. Cost control initiatives could decrease the price we might establish for products that we may develop, which would result in lower product revenues to us.

### ***We face a risk of product liability claims and may not be able to obtain insurance.***

Our business exposes us to the risk of product liability claims that is inherent in the manufacturing, testing and marketing of human therapeutic drugs. We face an inherent risk of product liability exposure related to the testing of our drug candidates in human clinical trials and will face an even greater risk if we commercially sell any products. Regardless of merit or eventual outcome, liability claims and product recalls may result in:

decreased demand for our drug candidates and products;

damage to our reputation;

regulatory investigations that could require costly recalls or product modifications;

withdrawal of clinical trial participants;

costs to defend related litigation;

substantial monetary awards to trial participants or patients, including awards that substantially exceed our product liability insurance, which we would then have to pay using other sources, if available, and would damage our ability to obtain liability insurance at reasonable costs, or at all, in the future;

loss of revenue;

the diversion of management's attention away from managing our business; and

the inability to commercialize any products that we may develop.

Although we have product liability and clinical trial liability insurance that we believe is adequate, this insurance is subject to deductibles and coverage limitations. We may not be able to obtain or maintain adequate protection against potential liabilities. If we are unable to obtain insurance at acceptable cost or otherwise protect against potential product liability claims, we will be exposed to significant liabilities, which may materially and adversely affect our business and financial position. These liabilities could prevent or interfere with our commercialization efforts.

### **Risks Relating to an Investment in Our Common Stock**

***Our corporate governance structure, including provisions in our certificate of incorporation and by-laws, our stockholder rights plan and Delaware law, may prevent a change in control or management that stockholders may consider desirable***

Section 203 of the Delaware General Corporation Law and our certificate of incorporation, by-laws, and stockholder rights plan contain provisions that might enable our management to resist a takeover of our company or discourage a third party from attempting to take over our company. These provisions include:

a classified board of directors,

limitations on the removal of directors,

limitations on stockholder proposals at meetings of stockholders,

the inability of stockholders to act by written consent or to call special meetings, and

the ability of our board of directors to designate the terms of and issue new series of preferred stock without stockholder approval.



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In addition, Section 203 of the Delaware General Corporation Law imposes restrictions on our ability to engage in business combinations and other specified transactions with significant stockholders. These provisions could have the effect of delaying, deferring, or preventing a change in control of us or a change in our management that stockholders may consider favorable or beneficial. These provisions could also discourage proxy contests and make it more difficult for you and other stockholders to elect directors and take other corporate actions. These provisions could also limit the price that investors might be willing to pay in the future for shares of our common stock.

***Our stock price has been and may in the future be extremely volatile. In addition, because an active trading market for our common stock has not developed, our investors' ability to trade our common stock may be limited. As a result, investors may lose all or a significant portion of their investment.***

Our stock price has been volatile. During the period from January 1, 2007 to September 30, 2008, the closing sales price of our common stock ranged from a high of \$15.41 per share to a low of \$5.28 per share. The stock market has also experienced significant price and volume fluctuations, and the market prices of biotechnology companies in particular have been highly volatile, often for reasons that have been unrelated to the operating performance of particular companies. The market price for our common stock may be influenced by many factors, including:

results of clinical trials of our drug candidates or those of our competitors;

the regulatory status of our drug candidates;

failure of any of our drug candidates, if approved, to achieve commercial success;

the success of competitive products or technologies;

regulatory developments in the United States and foreign countries;

our success in entering into collaborative agreements;

developments or disputes concerning patents or other proprietary rights;

the departure of key personnel;

variations in our financial results or those of companies that are perceived to be similar to us;

our cash resources;

the terms of any financing conducted by us;

changes in the structure of healthcare payment systems;

market conditions in the pharmaceutical and biotechnology sectors and issuance of new or changed securities analysts' reports or recommendations; and

general economic, industry and market conditions.

In addition, our common stock has historically been traded at low volume levels and may continue to trade at low volume levels. As a result, any large purchase or sale of our common stock could have a significant impact on the price of our common stock and it may be difficult for investors to sell our common stock in the market without depressing the market price for the common stock or at all.

As a result of the foregoing, investors may not be able to resell their shares at or above the price they paid for such shares. Investors in our common stock must be willing to bear the risk of fluctuations in the price of our common stock and the risk that the value of their investment in our stock could decline.

## **ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.**

During the period from September 11, 2008 to September 30, 2008, we issued a total of 46,335 shares of our common stock in unregistered sales of equity securities, all of which were issued to holders of warrants in connection with the exercise by such warrant holders of outstanding Idera common stock purchase warrants. We issued the aggregate 46,335 shares during the aforementioned period upon payment of a warrant exercise price of \$5.20 per share.

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We received approximately \$241,000 of cash proceeds in aggregate upon the exercise of the foregoing warrants.

The issuances of shares of our common stock upon exercise of outstanding warrants described above were exempt from registration under the Securities Act of 1933 pursuant to an exemption from registration under Section 4(2) of the Securities Act of 1933, as amended, Rule 506 of Regulation D promulgated thereunder, and/or Regulation S promulgated thereunder as not involving a public offering. The shares of common stock issued by us upon these warrant exercises have been registered for resale by the holders under our Registration Statement on Form S-3, File No. 333-133455.

We previously disclosed additional issuances of our common stock in unregistered sales of equity securities that occurred in the quarter ended September 30, 2008 in a current report on Form 8-K filed with the Securities and Exchange Commission on September 11, 2008 and in Item 5 of our quarterly report on Form 10-Q for the quarter ended June 30, 2008 as filed with the Securities and Exchange Commission.

**ITEM 6. EXHIBITS.**

The list of Exhibits filed as part of this Quarterly Report on Form 10-Q are set forth on the Exhibit Index immediately preceding such Exhibits, and is incorporated herein by this reference.

**SIGNATURES**

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

**IDERA PHARMACEUTICALS, INC**

Date: November 6, 2008

/s/ Sudhir Agrawal  
Sudhir Agrawal  
President, Chief Executive Officer, Chief  
Scientific Officer, and Director (Principal  
Executive Officer)

Date: November 6, 2008

/s/ Louis J. Arcudi, III  
Louis J. Arcudi, III  
Chief Financial Officer  
(Principal Financial and Accounting  
Officer)

**Exhibit Index**

**Exhibit No.**

- |      |  |
|------|--|
| 31.1 | Certification of Chief Executive Officer pursuant to Exchange Act Rules 13a-14 and 15d-14, as adopted pursuant to Section 302 of Sarbanes-Oxley Act of 2002. |
| 31.2 | Certification of Chief Financial Officer pursuant to Exchange Act Rules 13a-14 and 15d-14, as adopted pursuant to Section 302 of Sarbanes-Oxley Act of 2002. |
| 32.1 | Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.           |
| 32.2 | Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.           |