

INTROGEN THERAPEUTICS INC

Form 10-Q

August 09, 2007

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

Form 10-Q

(Mark One)

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

For the quarterly period ended June 30, 2007.

or

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

**For the transition period from to .
Commission file number 000-21291**

Introgen Therapeutics, Inc.

(Exact name of registrant as specified in its charter)

Delaware

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

74-2704230

*(I.R.S. Employer
Identification Number)*

**301 Congress Avenue, Suite 1850
Austin, Texas 78701**

(Address of principal executive offices, including zip code)

(512) 708-9310

(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 or a non-accelerated filer. See definition of accelerated filer and large accelerated filer in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer Non-accelerated filer

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of August 8, 2007 the registrant had 43,845,438 shares of its common stock, \$0.001 par value per share, issued and outstanding.

INTROGEN THERAPEUTICS, INC.
QUARTERLY REPORT ON FORM 10-Q
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**PART I
FINANCIAL INFORMATION**

Item 1. Financial Statements

**INTROGEN THERAPEUTICS, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS
(Amounts in thousands, except per share amounts)**

	December 31, 2006	June 30, 2007 (Unaudited)
ASSETS		
Current Assets:		
Cash and cash equivalents	\$ 25,578	\$ 8,471
Short-term investments	15,767	19,399
Total cash, cash equivalents and short-term investments	41,345	27,870
Marketable securities	6,957	19,692
Prepaid expense and other current assets	397	376
Total current assets	48,699	47,938
Property and equipment, net of accumulated depreciation of \$13,976 and \$14,521	5,172	4,654
Other assets	290	279
Total assets	\$ 54,161	\$ 52,871
 LIABILITIES AND STOCKHOLDERS EQUITY		
Current Liabilities:		
Accounts payable	\$ 2,384	\$ 1,601
Accrued liabilities and other	4,817	3,004
Deferred revenue and other	624	624
Current portion of notes payable	917	669
Total current liabilities	8,742	5,898
Notes payable, net of current portion	7,448	7,234
Deferred revenue and other, long-term	923	501
Total liabilities	17,113	13,633
Non-controlling and minority interests in consolidated subsidiaries		
Commitments and Contingencies		
Stockholders' Equity:		
Preferred stock, \$.001 par value per share; 5,000 shares authorized; 4,900 shares issuable; zero Series A shares issued and outstanding in 2006 and 2007, respectively		
	44	44

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Common stock, \$.001 par value per share; 100,000 shares authorized; shares issued and outstanding of 43,591 in 2006 and 43,845 in 2007		
Additional paid-in capital	205,350	208,185
Accumulated deficit	(172,260)	(185,626)
Accumulated other comprehensive gain	3,914	16,635
Total stockholders' equity	37,048	39,238
Total liabilities and stockholders' equity	\$ 54,161	\$ 52,871

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

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INTROGEN THERAPEUTICS, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(Amounts in thousands, except per share amounts)
(UNAUDITED)

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2006	2007	2006	2007
Contract services, grant and other revenue	\$ 98	\$ 82	\$ 323	\$ 404
Operating costs and expense:				
Research and development, including share-based compensation of \$253 and \$314 for the three months ended June 30, 2006 and 2007 and \$470 and \$619 for the six months ended June 30, 2006 and 2007	4,896	4,763	9,942	7,938
General and administrative, including share-based compensation of \$1,307 and \$1,190 for the three months ended June 30, 2006 and 2007 and \$3,328 and \$2,140 for the six months ended June 30, 2006 and 2007	3,273	3,533	7,069	6,800
Total operating costs and expense	8,169	8,296	17,011	14,738
Loss from operations	(8,071)	(8,214)	(16,688)	(14,334)
Interest income	267	373	566	815
Interest expense	(175)	(166)	(331)	(345)
Other income	288	244	543	498
Loss before non-controlling and minority interests in consolidated subsidiaries	(7,691)	(7,763)	(15,910)	(13,366)
Non-controlling and minority interests in consolidated subsidiaries		14		
Net loss	\$ (7,691)	\$ (7,749)	\$ (15,910)	\$ (13,366)
Net loss per share, basic and diluted	\$ (0.21)	\$ (0.18)	\$ (0.43)	\$ (0.31)
Shares used in computing basic and diluted net loss per share	37,214	43,801	37,197	43,728

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

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INTROGEN THERAPEUTICS, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(Amounts in thousands)
(UNAUDITED)

	Six Months Ended June 30,	
	2006	2007
Cash flows from operating activities:		
Net loss	\$ (15,910)	\$ (13,366)
Adjustments to reconcile net loss to net cash used in operating activities:		
Non-controlling and minority interests in consolidated subsidiaries		
Depreciation	719	545
Share-based compensation	3,769	2,759
Amortization of grant rights acquired	133	
Changes in assets and liabilities:		
(Increase) decrease in other assets	(27)	33
Increase (decrease) in accounts payable	280	(783)
Increase (decrease) in accrued liabilities	(366)	(311)
Increase (decrease) in deferred revenue and other	(114)	(422)
 Net cash used in operating activities	 (11,516)	 (11,545)
 Cash flows from investing activities:		
Purchases of property and equipment	(85)	(27)
Purchases of short-term investments	(22,198)	(19,334)
Maturities of short-term investments	14,790	15,702
 Net cash used in investing activities	 (7,493)	 (3,659)
 Cash flows from financing activities:		
Payment of offering costs related to sale of common stock		(1,571)
Proceeds from exercise of options for common stock	29	145
Proceeds from notes payable	346	94
Principal payments under notes payable	(434)	(557)
 Net cash used in financing activities	 (59)	 (1,889)
 Effect of exchange rate changes on cash	 14	 (14)
 Net decrease in cash	 (19,054)	 (17,107)
Cash and cash equivalents, beginning of period	28,090	25,578
 Cash and cash equivalents, end of period	 \$ 9,036	 \$ 8,471
 Supplemental disclosure of cash flow information:		
Cash paid for interest	\$ 309	\$ 330
 Cash paid for taxes for the issuance of common stock in connection with the grant of common stock	 \$ 28	 \$

Supplemental disclosure of non-cash investing and financing activities:

Grant rights acquired in asset acquisition	\$	30	\$	
Non-cash unrealized gain (loss) on marketable securities	\$	(991)	\$	12,735
Issuance of common stock in connection with the grant of stock	\$	251	\$	210
Construction allowance for leasehold improvements	\$	194	\$	

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

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INTROGEN THERAPEUTICS, INC. AND SUBSIDIARIES
UNAUDITED NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

1. Formation and Business of the Company

We are a biopharmaceutical company focused on the discovery, development and commercialization of targeted molecular therapies for the treatment of cancer and other diseases. We are developing product candidates to treat a wide range of cancers using tumor suppressors, cytokines and other targeted molecular therapies. These agents are designed to increase production of normal cancer-fighting proteins that act to overpower cancerous cells, stimulate immune activity and enhance conventional cancer therapies.

We have not yet generated any significant revenue from unaffiliated third parties, nor is there any assurance of future product revenue. We earn minimal revenue from contract services activities, interest income, and rent from the lease of a portion of our facilities to The University of Texas M. D. Anderson Cancer Center. We do not expect to generate revenue from the commercial sale of our products in the near future. We may never generate revenue from the commercial sale of our products.

Our research and development activities involve a high degree of risk and uncertainty. Our ability to successfully develop, manufacture and market our proprietary products is dependent upon many factors. These factors include, but are not limited to, the need for and the ability to obtain additional financing, the reliance on collaborative research and development arrangements with corporate and academic affiliates and the ability to develop manufacturing, sales and marketing experience. Additional factors include uncertainties as to patents and proprietary technologies, competitive technologies, technological change and risk of obsolescence, development of products, competition, government regulations and regulatory approval, and product liability exposure. As a result of these factors and the related uncertainties, there can be no assurance of our future success.

2. Basis of Presentation and Significant Accounting Policies

The accompanying condensed consolidated financial statements have been prepared in accordance with United States generally accepted accounting principles (GAAP) for interim financial information and pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). These financial statements do not include all of the information and footnotes required under GAAP for complete financial statements. In management's opinion, all accounting entries considered necessary for a fair presentation have been made in preparing these financial statements, and such entries are normal in nature. Operating results for the three and six month periods ended June 30, 2007 are not necessarily indicative of the results that may be expected for the entire fiscal year.

Our significant accounting policies are described in Note 2 to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2006, filed with the SEC on March 8, 2007.

These financial statements include the accounts of Introgen Therapeutics, Inc. and its consolidated subsidiaries (collectively referred to as "Introgen"). We account for Introgen Therapeutic Inc.'s investment in subsidiaries in accordance with the relevant provisions of generally accepted accounting principles, specifically FIN 46(R), Consolidation of Variable Interest Entities (as amended). Accordingly, the subsidiaries' accounts are included in these consolidated financial statements. We record a non-controlling or minority interest for the portion of those subsidiaries we do not own to the extent such minority interest constitutes a liability in our financial statements. If those subsidiaries have an accumulated net loss, the minority interest is zero. See footnote 3 regarding new subsidiaries.

See footnote 5 regarding our adoption of and accounting policies related to Statement of Financial Accounting Standard (SFAS) Interpretation No. 48, Accounting for Uncertainty in Income Taxes—an interpretation of SFAS Statement No. 109 (FIN 48),

3. Consolidated Subsidiaries

During the six months ended June 30, 2007, we purchased 49% of the outstanding stock of Introgen Research Institute, Inc. for \$10,000. The other 51% of IRI is owned by our corporate Secretary, who is also an Introgen shareholder. We transferred to IRI an NIH grant originally awarded to us. IRI will be responsible for the remaining research contemplated by that grant and will receive future funding, if any, from the NIH under that grant. For the three and six months ended June 30, 2007, we recorded grant income of \$213,000, all of which is related to grants held by IRI. We have contractual relationships with IRI under which we may perform research and development

services for them in the future.

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During the six months ended June 30, 2007, we established Introgen Global Limited (IGL), Gendux Pharmaceuticals Limited (GPL) and Gendux Molecular Limited (GML) to develop and commercialize targeted molecular medicines in European markets. We anticipate Introgen will license certain of its technologies to one or more of these entities in connection with those activities.

Introgen owns 100% of IGL. Introgen owns 85% of GPL in the form of preferred stock convertible by Introgen into common stock at any time. The other 15% of GPL is owned by certain of our directors, officers, employees and key medical consultants in the form of 150,000 shares of restricted common stock granted to them as approved by our Board of Directors. GPL owns 100% of GML.

The restricted common stock of GPL is designed to provide performance incentives similar in nature to a stock option plan. This stock is subject to transfer and other restrictions. These restrictions are subject to release under a four year vesting schedule that is contingent upon continued service by the stockholder to Introgen and/or GPL. This stock is voted by Introgen under proxy from the stockholders. This stock had a nominal value at the time it was issued such that the share-based compensation related to those shares at that time was not material.

4. Accumulated Other Comprehensive Income or Loss

Accumulated other comprehensive income or loss is included as a component of stockholders' equity and is composed of (1) foreign currency translation adjustments and (2) unrealized gains and losses on investments designated as available-for-sale securities. Accumulated other comprehensive income (loss) is calculated as follows (in thousands):

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2006	2007	2006	2007
Net loss	\$ (7,691)	\$ (7,749)	\$ (15,910)	\$ (13,366)
Foreign currency translation adjustments	14	(10)	14	(14)
Unrealized gain (loss) on marketable securities	(863)	8,688	(991)	12,735
Total comprehensive income (loss)	\$ (8,540)	\$ 929	\$ (16,887)	\$ (645)

5. Accounting for Uncertainty in Income Taxes

We adopted FIN 48 as of January 1, 2007. FIN 48 applies to all tax positions accounted for under SFAS No. 109. FIN 48 refers to tax positions as positions taken in a previously filed tax return or positions expected to be taken in a future tax return which are reflected in measuring current or deferred income tax assets and liabilities reported in the financial statements. FIN 48 further clarifies a tax position to include, but not be limited to, the following:

An allocation or a shift of income between taxing jurisdictions;

The characterization of income or a decision to exclude reporting taxable income in a tax return;

A decision to classify a transaction, entity, or other position in a tax return as tax exempt.

FIN 48 provides that a tax benefit may be reflected in the financial statements only if it is more likely than not that a company will be able to sustain the tax return position, based on its technical merits. If a tax benefit meets this criterion, it should be measured and recognized based on the largest amount of benefit that is cumulatively greater than 50% likely to be realized. This approach is a change from previous practice under which a tax benefit could be recognized only if it was probable a tax position could be sustained.

FIN 48 requires we make qualitative and quantitative disclosures, including a discussion of reasonably possible changes that might occur in unrecognized tax benefits over the next twelve months, a description of open tax years by major jurisdictions and a roll-forward of all unrecognized tax benefits, presented as a reconciliation of the beginning and ending balances of the unrecognized tax benefits on an aggregated basis.

The Company and certain of its subsidiaries file income tax returns in the U.S. federal jurisdiction, various state jurisdictions, and certain foreign jurisdictions. Generally, the Company is no longer subject to examinations for U.S.

federal income taxes for years prior to 2003 and for state income taxes for years prior to 2002. Examinations for foreign income taxes for previous years remain open, but tax considerations in those jurisdictions are not material to us.

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The adoption of FIN 48 did not have a material impact on our financial statements or disclosures. As of January 1, 2007 and June 30, 2007, we did not recognize any assets or liabilities for unrecognized tax benefits relative to uncertain tax positions. We anticipate no significant increase or decrease to gross unrecognized tax benefits will be recorded during the next twelve months. Any interest or penalties resulting from examinations will continue to be recognized as a component of the income tax provision. However, since there are no unrecognized tax benefits as a result of tax positions taken, we have no accrued interest and penalties.

6. Share-Based Compensation

The Company issued 98,323 and zero shares of common stock related to exercises of stock options granted from its stock option plans for the three months ended June 30, 2007 and 2006, respectively. The Company issued 206,723 and 44,825 shares of common stock related to exercises of stock options granted from its stock option plans for the six months ended June 30, 2007 and 2006, respectively.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis should be read in conjunction with our condensed consolidated financial statements and the related notes thereto included in this Quarterly Report on Form 10-Q and the other documents we have filed with the Securities and Exchange Commission. In addition to historical information, this report and the following discussion and analysis contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These statements address our future operations, financial condition, business strategies and other prospective items and include, among other subjects, matters concerning our expectations regarding:

Our expectations regarding various regulatory applications, procedures and approvals relating to our product candidates, including but not limited to our expectations regarding the timing of such applications, procedures and approvals;

The growth of our operations, business and revenues and the growth rate of our costs and expenses;

Future increases in our research and development, sales and marketing and general and administrative expenses;

The sufficiency of our existing cash, cash equivalents, marketable securities and cash generated from operations;

Better efficacy of our product candidates through the use of biomarkers ;

Application of our research and development expertise to other diseases that result from cellular dysfunction and uncontrolled cell growth; and

Access to additional working capital.

The words believe, expect, anticipate and other similar expressions generally identify forward-looking statements. These forward-looking statements are based on our current expectations and entail various risks and uncertainties. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements. We undertake no obligation to revise or publicly release the results of any revision to these forward-looking statements. These forward-looking statements are subject to certain risks and uncertainties that could cause our actual results to differ materially from those reflected in the forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in this report, and in particular, the risks discussed under the heading Risk Factors in Part II, Item 1A of this report and those discussed in other documents we file with the Securities and Exchange Commission.

Overview

Introgen Therapeutics, Inc. was incorporated in Delaware in 1993. We are a biopharmaceutical company focused on the discovery, development and commercialization of targeted molecular therapies for the treatment of cancer and other diseases. We are developing product candidates to treat a wide range of cancers using tumor suppressors, cytokines and other targeted molecular therapies. These agents are designed to increase production of normal

cancer-fighting proteins that act to overpower cancerous cells, stimulate immune activity and enhance conventional cancer therapies.

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Our primary approach to the treatment of cancers is to deliver targeted molecular therapies that increase production of normal cancer-fighting proteins to induce apoptosis, cell cycle control, cell growth control and gene regulation, including the regulation of angiogenic and immune factors. Our products work by acting as templates for the transient *in vivo* production of proteins that have pharmacological properties. The resultant proteins engage disease-related molecular targets or receptors to produce specific therapeutic effects.

We believe the use of targeted molecular therapies to induce the production of biopharmaceutical proteins represents a new approach for treating many cancers while avoiding the toxic side effects common to traditional therapies. We have developed significant expertise in developing targeted therapies that may be used to treat disease and in using what we believe are safe and effective delivery systems to transport these agents to the cancer cells. We believe we will be able to treat a number of cancers in a way that kills cancer cells without harming normal cells.

Our lead product candidate, ADVEXIN[®] therapy, combines the p53 tumor suppressor with a non-replicating, non-integrating, adenoviral delivery system we have developed and extensively tested. The p53 molecule is one of the most potent members of a group of naturally-occurring tumor suppressors, which act to kill cancer cells, arrest cancer growth and protect cells from becoming cancerous. We are developing other product candidates for the treatment of cancer using other molecules and delivery systems, such as the mda-7 and FUS1 tumor suppressors.

We believe our research and development expertise gained from our targeted molecular therapies for cancer is also applicable to other diseases that, like cancer, result from cellular dysfunction and uncontrolled cell growth. As a result, we are conducting research in collaboration with medical institutions to understand the safety and effectiveness of our targeted molecular therapy product candidates in the treatment of other diseases.

We typically license the technologies on which our products are based from third parties. These licenses generally grant us exclusive rights for pre-clinical and clinical development, manufacturing, marketing and commercialization of product candidates based on those technologies.

Our product research and development efforts include pre-clinical activities as well as the conduct of Phase 1, 2 and 3 clinical trials. We rely on third parties to treat patients in their facilities under these clinical trials. We produce ADVEXIN therapy and other product candidates in manufacturing facilities we own and operate using production methods we developed. We hold a number of patents or patents pending on certain product candidates and manufacturing processes used to produce certain product candidates.

We have not yet generated any significant revenue from unaffiliated third parties, nor is there any assurance of future product revenue. We earn minimal revenue from contract services activities, grants and interest income, as well as rent from the lease of a portion of our facilities to The University of Texas M. D. Anderson Cancer Center. We do not expect to generate revenue from the commercial sale of our products in the near future. We may never generate revenue from the commercial sale of our products.

Our principal executive offices are located at 301 Congress Avenue, Suite 1850, Austin, Texas 78701. Our telephone number is (512) 708-9310. Our Internet website address is www.introgen.com.

The Introgen Approach

Our primary approach for the treatment of cancers is to deliver targeted molecular therapies that increase production of normal cancer-fighting proteins. The resultant proteins engage disease-related molecular targets or receptors to produce specific therapeutic effects. We believe we are able to treat a number of cancers in a way that kills cancer cells without harming normal cells.

Most cancers are amenable to local treatment, such as surgery and radiation, which are administered far more often than systemic cancer treatments. Our locally delivered product candidates, such as ADVEXIN therapy and INGN 241, IL24 therapy, deposit therapeutic molecules directly into a patient's cancerous tumor by hypodermic syringe. We have systemic formulations for intravenous use in those cases for which a systemic therapy may be indicated and have applied ADVEXIN therapy using a nanoparticle formulation system to deliver our tumor suppressors.

We initially focused on advanced cancers lacking effective treatments and in which local tumor growth control, where the tumor stops growing or shrinks, is likely to lead to measurable benefit. We have expanded our focus to include earlier stage cancers and pre-malignancies. We believe our clinical trials have shown that our therapies can be used alone and in combination with conventional treatments such as surgery, radiation therapy and chemotherapy.

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The Introgen Strategy

Our objective is to be a leader in the development of targeted molecular tumor suppressor therapies and other products for the treatment of cancer and other diseases that, like cancer, result from cellular dysfunction and uncontrolled cell growth. To accomplish this objective, we are pursuing the following strategies:

Develop and Commercialize ADVEXIN Therapy, INGN 241, INGN 225 and INGN 401 for Multiple Cancer Indications. We plan to continue our development programs to commercialize our ADVEXIN therapy, using the p53 tumor suppressor, our INGN 241 product, using the mda-7 tumor suppressor, also known as interleukin 24 (IL-24), our INGN 225 product, using the p53 gene as a highly specific cancer immunotherapy, and our INGN 401 systemic nanoparticle therapy, using the FUS1 tumor suppressor, in multiple cancer indications.

Develop Our Portfolio of Targeted Molecular Therapies and Other Drug Products. Utilizing our research, clinical, regulatory and manufacturing expertise, we are evaluating development of additional molecular therapies for various cancers, including:

INGN 234, an oral rinse or mouthwash formulation containing the p53 tumor suppressor;

INGN 402 and 403, using nanoparticle formulations for systemic delivery of the p53 and mda-7 tumor suppressors; and

INGN 007, a replication-competent viral therapy.

Develop a Nanoparticle Systemic Administration Platform. Early pre-clinical and clinical studies with these new nanoparticle drugs have demonstrated a good safety profile and promising anti-cancer activity. In addition to FUS-1, we incorporate the p53 tumor suppressor and the mda-7 tumor suppressor in these nanoparticle formulations. We also have in-licensed technologies for nanoparticle delivery of DNA, siRNA, proteins, peptides and polypeptides.

Develop the Topical Use of Tumor Suppressors. We plan to continue developing topical product candidates for the treatment or prevention of oral and dermal cancers, specifically INGN 234 referred to above. We believe these treatments are a logical extension of our loco-regional delivery of cancer therapies and represent attractive product candidates since pre-malignant and malignant cells can be exposed to natural, biological tumor suppressors and DNA repairing agents.

Establish Targeted Sales and Marketing Capabilities. The oncology market can be effectively addressed by a small, focused sales force because it is characterized by a concentration of specialists in relatively few major cancer centers. We believe we can address this market by a combination of building a direct sales force as part of the ADVEXIN therapy commercialization process and pursuing marketing and distribution agreements with corporate partners for ADVEXIN therapy as well as additional products.

Expand Our Market Focus to Non-Cancer Indications. We plan to leverage our scientific, research and process competencies in molecular therapy and vector development to pursue targeted molecular therapies for a variety of other diseases and conditions. We believe these therapies could hold promise for diseases such as cardiovascular disease and rheumatoid arthritis, which, like cancer, result from cellular dysfunction or uncontrolled cell growth.

We have an established process for evaluating new drug candidates and advancing them from pre-clinical to clinical development. We have identified and licensed multiple technologies, which we intend to combine with our adenoviral and non-viral vector systems and which we believe are attractive development targets for the treatment of various cancers. We intend to evaluate additional opportunities to in-license or acquire new technologies.

Product Development Overview

ADVEXIN® Therapy (p53)

ADVEXIN Therapy Overview and Regulatory Status

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Our lead product candidate, ADVEXIN[®] therapy, combines the p53 tumor suppressor with a non-replicating, non-integrating adenoviral delivery system we have developed and extensively tested. The p53 molecule is one of the most potent members of a group of naturally-occurring tumor suppressors, which act to kill cancer cells, arrest cancer cell growth and protect cells from becoming cancerous.

ADVEXIN therapy for head and neck cancer has been designated an Orphan Drug under the Orphan Drug Act. This designation may give us up to seven years of marketing exclusivity for ADVEXIN therapy for this indication if approved by the U.S. Food and Drug Administration (FDA). In September 2006, the European Medicines Agency (EMA) Committee for Orphan Medicinal Products has granted ADVEXIN therapy an Orphan Medicinal Product Designation in Europe for the treatment of Li-Fraumeni Syndrome. This designation has been ratified by the European Commission. Li-Fraumeni Syndrome is an inherited cancer characterized by inherited mutations in the p53 tumor suppressor gene. The Orphan Medicinal Product Designation in Europe confers a number of regulatory benefits to ADVEXIN therapy, including access to protocol assistance, reduced regulatory fees and a ten-year period of marketing exclusivity from the date of marketing authorization by the European Commission.

We have an agreement with EMA to file for marketing approval for ADVEXIN therapy under the EMA's Exceptional Circumstances (EC) provisions. The application will be for the use of ADVEXIN therapy for the treatment of Li-Fraumeni Syndrome. Exceptional circumstances provisions are designed to facilitate access to needed treatments for certain Orphan Medicinal Products. A Marketing Authorization Application filed with the EMA under these provisions can be reviewed on an expedited basis. This EC registration approach is designed by EMA to be more streamlined than EMA's Conditional Approval procedures, which are similar to the FDA's Accelerated Approval regulations.

As a result of an audit and inspection by a European Union Qualified Person (QP), we are certified with the United Kingdom's Medicines and Healthcare Products Regulatory Agency (MHRA) that our facilities and production processes are compliant with European Good Manufacturing Practices for the manufacture of ADVEXIN therapy. The MHRA is the competent authority in the United Kingdom and is a component of the EMA.

We have two ongoing Phase 3 clinical trials of ADVEXIN therapy in patients with advanced recurrent squamous cell carcinoma of the head and neck (recurrent head and neck cancer). These trials involve administration of ADVEXIN therapy, both independently and in combination with chemotherapy, in recurrent head and neck cancer.

We received Fast Track designation for ADVEXIN therapy from the FDA under its protocol assessment program as a result of the FDA's agreement with the design of our two ongoing Phase 3 clinical trials of ADVEXIN therapy. Under this Fast Track designation, the FDA will take actions to expedite the evaluation and review of the Biologics License Application (BLA) for ADVEXIN therapy. We plan to pursue with the FDA an Accelerated Approval of ADVEXIN therapy, which is one alternative provided under a Fast Track designation.

We reviewed historically successful FDA registration strategies for numerous cancer drugs, noting that during the past decade, approximately 14 cancer drugs were initially approved based upon submissions of Phase 2 clinical data. A number of the Phase 2 trials supporting these approvals employed single-arm studies involving relatively small patient populations. Virtually all of those drugs relied on surrogate endpoints for approval and a substantial number of the products were for orphan drug indications.

We conducted a series of meetings with the FDA to develop and implement the filing strategy for the BLA for ADVEXIN therapy, which is the application for approval to market and sell ADVEXIN therapy in the United States. As a result of these meetings, we are developing and pursuing an initial rolling BLA filing strategy based on data from our Phase 2 and Phase 3 clinical trials of ADVEXIN therapy for treatment of recurrent head and neck cancer. The FDA has concurred that preliminary evaluation of this data suggests a level of efficacy consistent with the standard for the initiation of a rolling BLA (a submission process also known as Submission Of a Partial Application or SOPA). The FDA has also concluded that ADVEXIN therapy continues to show promise with respect to an unmet medical need since there are limited treatment alternatives in the United States for recurrent head and neck cancer. The FDA has also concluded that the clinical development program for ADVEXIN therapy for recurrent head and neck cancer continues to meet the criteria for Fast Track designation. In conjunction with the new data, the new analyses, and other newly employed biological techniques, we hope to more specifically target recurrent head and neck cancer in patients using indicators known as biomarkers, as discussed further below under ADVEXIN Therapy as a Targeted

Molecular Therapy. We believe this approach will improve efficacy by identifying the patients most likely to benefit from Advexin therapy.

We submitted a SOPA Request to the FDA Division of Cellular and Gene Therapies proposing a rolling BLA for ADVEXIN therapy for the treatment of recurrent head and neck cancer, based primarily on data from our Phase 2 clinical trials. We have

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proposed to the FDA that, since the basis of the proposed rolling BLA is Phase 2 clinical data utilizing surrogate endpoints, the rolling BLA could be evaluated under the provisions of Subpart H for Accelerated Approval. In order to fully explore all of the review and approval possibilities for ADVEXIN therapy, the FDA has requested we submit new data and analyses from the Phase 2 ADVEXIN therapy clinical trials for recurrent head and neck cancer and conduct efficacy analyses on one or both of our ongoing Phase 3 trials. Given that we have two ongoing Phase 3 clinical trials in recurrent head and neck cancer as discussed further below, we and the FDA are evaluating the most effective use of the data from these Phase 2 and 3 clinical trials in the review and approval of ADVEXIN therapy. Regulatory approval approaches may allow Accelerated Approval on the basis of Phase 2 clinical data with subsequent confirmatory data being provided by the Phase 3 clinical studies or, alternatively, a full approval based on data from Phase 2 and certain Phase 3 clinical trials. We have reached agreement with the FDA that biomarker evaluations as described in its recently announced Critical Path Initiative, which permits new product evaluation on the basis of specifically targeted (i.e., by prognostic or biologic parameters) clinical trials and/or patient populations, can be used in the ADVEXIN therapy approval process. This initiative also encouraged sponsors to examine novel approaches to define tumor responses that correlate with clinical benefit. We have employed several biomarker and response criteria to evaluate ADVEXIN efficiency as described below.

We have initiated the efficacy analysis of our ADVEXIN Phase 3 study. This analysis will involve comparing ADVEXIN therapy to methotrexate for the treatment of recurrent head and neck cancer. The prospective efficacy assessment of the randomized, controlled clinical trial is based upon analysis of biomarkers and clinical outcomes. The efficacy evaluation of the Phase 3 study will incorporate the biomarker analyses identified in Phase 2 clinical trials of ADVEXIN therapy of recurrent head and neck cancer. The Phase 3 Statistical Analysis Plan was finalized with input from the FDA. Introgen has followed advice from the FDA to accelerate its Phase 3 safety analysis and to perform an efficacy analysis for this study. An independent Data Safety Monitoring Board review in 2006 noted no safety issues with the Phase 3 study. In the second quarter of 2007, Introgen completed the submission of its Phase 2 data to the FDA. These data contained information on response rate, survival and biomarker findings associated with the use of Advexin in recurrent head and neck cancer.

During 2007, we plan to complete the efficacy analyses of one or both of our two ongoing Phase 3 clinical trials for recurrent head and neck cancer, submit Phase 3 clinical data to the FDA and EMEA in support of our ADVEXIN registration program and complete filings with the EMEA in support of an Exceptional Circumstance Approval Application for Li-Fraumeni Syndrome cancers that are due to inherited abnormalities in the p53 tumor suppressor gene or p53 pathway that are the molecular targets of ADVEXIN therapy. We have noted a positive correlation between ADVEXIN therapy clinical activity and abnormal p53 protein levels in multiple patients with different types of cancer. We are continuing to analyze patient tissue samples, protein expression and other biomarker data obtained from previously conducted clinical trials investigating the use of ADVEXIN therapy in various solid cancers. We plan to include relevant data from this research in our submissions to regulatory agencies.

We cannot assure you that we will be able to achieve these regulatory milestones during the time period that we currently anticipate. We may encounter delays in the regulatory process relating to these milestones due to additional information requirements from regulatory authorities, unintentional omissions in our applications, additional government regulation or other delays in the review process. We may update our expectations regarding these regulatory milestones from time to time to reflect new information as it becomes available to us.

ADVEXIN Therapy as a Targeted Molecular Therapy

We identified a set of predictive indicators, commonly referred to as biomarkers, associated with high response rates and increased survival in Phase 2 clinical trials of ADVEXIN therapy in patients with recurrent head and neck cancer. These trials are discussed in more detail below under Other ADVEXIN Therapy Activities. These biomarkers support the use of ADVEXIN therapy as a targeted molecular therapy.

The FDA, the National Cancer Institute (NCI), and the Centers for Medicare & Medicaid Services are undertaking the Oncology Biomarker Qualification Initiative to expedite the development of novel cancer treatments. These agencies define biomarkers as clinical or biological indicators of disease or therapeutic effects, which can be measured through dynamic imaging tests, laboratory tests on blood or tissue samples as well as by clinically defined parameters. This initiative was developed to employ biomarkers as a way of speeding the development and evaluation of new

cancer therapies.

The identification of predictive indicators of ADVEXIN therapy activity is responsive to these initiatives by predicting the patient populations most likely to benefit from a specific cancer therapy. A molecular biomarker predictive of ADVEXIN therapy activity is abnormal p53 function detected in tumor tissues by a routine immunohistochemistry laboratory test. The population we identified as

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benefiting from ADVEXIN therapy includes patients who are less likely to respond to standard therapies such as chemotherapies and radiation.

The predictive biomarkers define target populations of patients with higher tumor response rates and increased survival following treatment with ADVEXIN therapy. In an analysis of 112 patients in the Phase 2 trial of recurrent head and neck cancer treated with the ADVEXIN therapy dose proposed for regulatory approval, the percentages of patients with tumor responses defined by reductions in bi-dimensional tumor area on CT scan of 50 percent, 25 percent, 10 percent or stable disease for more than 2 treatment cycles were 6 percent, 7 percent, 12 percent and 22 percent, respectively. Median survival for these responder populations were 41, 17, 15 and 10 months, respectively. There was a statistically significant increase in median survival for each of the responder populations compared to the 6 month median survival of the non-responders (p less than 0.0016). Spontaneous tumor remissions generally are not observed in recurrent head and neck cancer. The median survival for these ADVEXIN therapy responders compares favorably with the approximate six month survival time typically expected for recurrent head and neck cancer patients who have failed prior therapies.

The predictive abnormal p53 biomarker was associated with a statistically significant increase in tumor responses to ADVEXIN therapy. A reduction in tumor size was observed in 40 percent of patients with the abnormal p53 biomarker compared to none (zero percent) of the patients with p53 normal tumors. Tumor growth control lasting for a minimum of two treatment cycles was observed in 75 percent of patients with abnormal p53 tumors compared to 27 percent of patients with a normal p53 biomarker. Both the increased reduction in tumor size and tumor growth control associated with the abnormal p53 biomarker were statistically significant ($p = 0.02$). In addition, the abnormal p53 was a predictive biomarker for increased survival following ADVEXIN treatment. Median survival of patients with abnormal p53 was 11.6 months, compared to 3.5 months for patients with normal p53 ($p = 0.0007$). These biomarker analyses were conducted with pre-treatment samples from 28 patients on a completely blinded basis by an independent laboratory that was not aware of the clinical results of the study.

The targeted molecular therapy provided by ADVEXIN therapy is evidenced by its use to successfully treat a Li-Fraumeni Syndrome cancer patient on a compassionate use basis under a protocol authorized by the FDA. Li-Fraumeni Syndrome cancer patients have inherited defects in the p53 tumor suppressor gene that is the target of ADVEXIN therapy. Our treatment of a tumor in a Li-Fraumeni Syndrome patient with ADVEXIN therapy led to improvement of tumor-related symptoms and resulted in a complete response in the treated lesion as determined by positron emission tomography (PET) computerized tomography (CT) scans. PET-CT scans measure the metabolic activity of tumors and are being increasingly utilized in the management of cancer patients because they provide more sensitive assessments of treatment effects compared to conventional CT and magnetic resonance imaging scans.

This Li-Fraumeni Syndrome study defined important biomarkers to guide the administration of ADVEXIN therapy to patients with other cancers who display p53 pathway abnormalities. Our molecular analysis of biopsies of the Li-Fraumeni Syndrome tumor before and after treatment identified key markers of p53 pathway abnormalities that are used to predict and evaluate the effects of ADVEXIN therapy. These markers included detection of abnormal levels of p53 protein that identify aberrant p53 pathways and the induction of molecular markers of tumor growth control and tumor cell death that validate ADVEXIN therapy's mechanisms of action. We believe these biomarkers can be used to identify patients most likely to benefit from ADVEXIN therapy.

The EMEA Committee for Orphan Medicinal Products has granted ADVEXIN therapy an Orphan Medicinal Product Designation in Europe for the treatment of Li-Fraumeni Syndrome. This designation has been ratified by the European Commission. The Orphan Medicinal Product Designation in Europe confers a number of regulatory benefits to ADVEXIN therapy, including access to protocol assistance, reduced regulatory fees and a 10-year period of marketing exclusivity from the date of approval. We received this designation through Gendux AB, our wholly-owned subsidiary.

We have an agreement with EMEA to file for marketing approval for ADVEXIN therapy under the EMEA's Exceptional Circumstances provisions. The application will be for the use of ADVEXIN therapy for the treatment of Li-Fraumeni Syndrome. Exceptional circumstances provisions are designed by EMEA to facilitate access to needed treatments for certain Orphan Medicinal Products. A Marketing Authorization Application filed with the EMEA under these provisions can be reviewed on an expedited basis. This registration approach is more streamlined than EMEA's

Conditional Approval procedures, which are similar to the FDA's Accelerated Approval regulations. As a result of the encouraging clinical findings in treating Li-Fraumeni Syndrome, we have made ADVEXIN therapy available on a compassionate use basis to qualified Li-Fraumeni Syndrome patients with tumors refractory to standard treatment.

Li-Fraumeni Syndrome is an inherited genetic disorder that greatly increases the risk of developing several types of cancer typically with initial occurrence at a young age. The majority of Li-Fraumeni Syndrome families have inherited mutations in the p53

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tumor suppressor gene. The findings described above have been presented at the annual meetings of the American Society of Gene Therapy (ASGT) and the American Society of Clinical Oncology (ASCO).

Other ADVEXIN Therapy Activities

We performed a Phase 2 clinical trial of ADVEXIN therapy combined with neoadjuvant chemotherapy and surgery in women with locally advanced breast cancer. The results of this study were published in the journal *Cancer*. Objective clinical responses were seen following the combined therapy in 100% of the patients with a median of 80% reduction in tumor size. Following tumor shrinkage, complete tumor removal by subsequent surgery was achieved in 100% of the patients. At a median follow-up of 37 months (range, 30-41 months), four patients (30%) developed systemic recurrence and two patients died. The estimated breast cancer-specific survival rate at three years was 84%. There was no increase in systemic toxicity. Neoadjuvant treatments are administered prior to surgery and represent a novel and increasingly applied approach to making surgical tumor resections less invasive, improving outcomes and facilitating breast conservation.

We completed a Phase 2 clinical trial of ADVEXIN therapy administered as a complement to radiation therapy in non-small cell lung cancer. In the 19 patients who participated in the trial, combined ADVEXIN therapy and radiation treatment resulted in 63% biopsy-proven complete responses at three months, which is approximately four times the expected rate using radiotherapy alone. The results of this study were published in *Clinical Cancer Research*.

We performed a Phase 1/early Phase 2 clinical trial of ADVEXIN therapy for the treatment of advanced, unresectable, squamous cell esophageal cancer. Results of this trial in patients with esophageal cancer refractory to chemotherapy and radiation indicate three of the ten patients treated, or 30%, had negative biopsies after receiving ADVEXIN therapy. The median survival of the patients treated with ADVEXIN therapy was approximately twelve months, which compared favorably to historical controls in which a median survival of less than ten months was observed for patients who did not respond to standard treatments. Six patients, or 60%, were still alive one year after beginning ADVEXIN therapy. This clinical trial was performed at Chiba University in Japan.

We have completed other clinical trials of ADVEXIN therapy, including Phase 1 studies in prostate cancer and bronchoalveolar carcinoma. To date, clinical investigators at sites in North America, Europe and Japan have treated over 600 patients with ADVEXIN therapy, establishing a large safety database. Findings from several of our clinical trials have been published in *Clinical Cancer Research* and *Proceedings of the American Society for Clinical Oncology* as well as presented at numerous conferences, including the San Antonio Breast Cancer Conference and various meetings of the ASCO, ASGT and the American Association for Cancer Research.

A growing body of data suggests ADVEXIN therapy demonstrates clinical activity in a variety of cancer indications. Safety data from our clinical trials suggest this activity may be achieved without the treatment-limiting side effects frequently associated with many other cancer therapies.

Our clinical trials indicate ADVEXIN therapy is well tolerated as a monotherapy. The addition of ADVEXIN therapy to standard chemotherapy, surgery or radiation does not appear to increase the frequency or severity of side effects normally associated with these treatment regimens.

Recent studies provide new insight into the molecular pathways by which the p53 tumor suppressor, the active component of ADVEXIN therapy, kills tumor cells. These studies were undertaken to provide additional molecular data supporting the activity observed during the clinical development of ADVEXIN therapy and to provide additional information regarding the specific pathways that mediate the observed clinical effects of ADVEXIN therapy. The studies were conducted by our collaborators at Okayama University in Japan and at The University of Texas M. D. Anderson Cancer Center and were published in *Molecular Cancer Therapeutics*.

Other data suggest the enhanced therapeutic effects of a combination of ADVEXIN and Erbitux® therapies in an animal model of human non-small cell lung cancer. Other pre-clinical studies conducted by our collaborators at Wayne State University, the Karmanos Cancer Institute located in Detroit, Michigan and the University of California-Irvine, as published in *The Laryngoscope*, show that the combination of ADVEXIN therapy and docetaxel resulted in increased levels of programmed cell death in head and neck tumor cells.

We hold a worldwide, exclusive license to a family of patent applications directed to combination therapy using ADVEXIN therapy with inhibitors of epidermal growth factor receptors (EGFr inhibitors) such as Erbitux®, Vectibix®, Tarceva® and Iressa®. We licensed this family of patents from M. D. Anderson Cancer Center. This

important technology is based on the discovery by

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scientists at M. D. Anderson Cancer Center that p53 therapies (which is the basis for our ADVEXIN therapy) and mda7 therapies (which is the basis for our INGN 241 product candidate discussed below) can work synergistically with inhibitors of epidermal growth factor receptors to arrest tumor growth. Preclinical studies have shown that this therapeutic approach results in a greater level of cancer cell death than when either therapy is used alone.

We hold the worldwide rights for pre-clinical and clinical development, manufacturing, marketing and commercialization of ADVEXIN therapy.

INGN 241 (mda-7)

INGN 241 uses mda-7, a promising tumor suppressor, that we believe, like p53, has broad potential to induce apoptosis or cell death in many types of cancer. We have combined the mda-7 tumor suppressor with our adenoviral delivery system to form INGN 241. Our pre-clinical trials have shown the protein produced by INGN 241 suppresses the growth of many cancer cells, including those of the breast, lung, ovaries, colon, prostate and the central nervous system, while not affecting the growth of normal cells. Because INGN 241 kills cancer cells even if other tumor suppressors, including p53, are not functioning properly, it appears mda-7 functions via a novel mechanism of tumor suppression.

We have completed a Phase 1/early Phase 2 clinical trial using INGN 241 to evaluate safety, mechanism of action and efficacy in approximately 22 patients with solid tumors. This trial indicated that in patients with solid tumors, INGN 241 was well tolerated, was biologically active and displayed minimal toxicity associated with its use. Although INGN 241 was administered directly to tumors, evidence of distant biologic activity was observed, suggesting that this therapy may have utility in treating primary tumors as well as metastatic disease. We are conducting later stage clinical trials using INGN 241 in patients with metastatic melanoma. We are conducting a Phase 3 clinical trial using INGN 241 in combination with radiation therapy for solid tumors. We are currently designing a pivotal, clinical trial for INGN 241 combined with bevacizumab.

Data from our Phase 1/early Phase 2 trial of INGN 241 in patients with solid tumors demonstrate that direct injection of INGN 241 induced programmed cell death in 100% of the tumors treated, even in patients who had failed prior therapy with other anti-cancer drugs. Clinical responses were observed in 44% of the treated lesions, including complete and partial responses in two patients with melanoma. Patients treated with INGN 241 had increases in a subset of T-cells that help to destroy cancer cells, which is consistent with the role of the mda-7 protein as a member of the interleukin family of immune stimulating proteins.

We have conducted pre-clinical work indicating that in addition to its known activity as a tumor suppressor, the protein produced by mda-7 may also stimulate the body's immune system to kill metastatic tumor cells and to protect the body against cancer, thereby offering the potential of providing an added advantage in treating various cancers because it may attack cancer using two different mechanisms. Because the mda-7 tumor suppressor may act as a cytokine, or immune system modulator, it is also known as interleukin 24, or IL-24. The mda-7 molecule may also work as a radiation sensitizer to make several types of human cancer cells more susceptible to radiation therapy. We have seen evidence of this effect in pre-clinical and clinical settings.

We have identified the molecular pathways by which mda-7, the active component of INGN 241, induces growth arrest and programmed cell death or apoptosis in cancer cells. Pre-clinical studies using lung cancer cells have demonstrated the mda-7 protein binds to a critical cellular enzyme known as PKR. The binding of mda-7 to PKR is essential for the anti-cancer activity of INGN 241. The identification of this binding partner demonstrates a significant advancement in understanding how this therapeutic can be effective against cancer. Additional studies have identified bystander killing of pancreatic cancer cells by the mda-7 protein. Bystander killing involves the killing of neighboring tumor cells by the mda-7 protein released from adjacent INGN 241-treated tumor cells.

Pre-clinical data indicate INGN 241 works synergistically with celecoxib, marketed by Pfizer as Celebrex®, to inhibit the growth and increase killing of breast cancer cells. The combination of celecoxib and INGN 241 showed greater than additive increases in cell death compared with either therapy alone and also resulted in the suppression of tumor cell growth.

Pre-clinical data indicate INGN 241 and bevacizumab, marketed by Roche Holding AG and Genentech, Inc. (Genentech) as Avastin®, each inhibit tumor angiogenesis through distinct mechanisms in models of lung cancer. Study results demonstrate that the combination of INGN 241 and Avastin® significantly increases anti-tumor activity

compared with either agent used separately. We have observed synergistic activity resulting in a positive therapeutic effect in the treatment of lung cancer in laboratory animals following the combination of the two agents. In contrast, treatment with Avastin® alone demonstrated only minor tumor regression in those animals. These findings have been published in *Molecular Therapy*, the journal of the American Society of Gene Therapy.

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Pre-clinical data indicate the combination of INGN 241 and Tarceva®, marketed by Genentech, more significantly inhibits tumor cell growth than Tarceva® administered alone. The preclinical data suggest the two agents work in concert to inhibit activity of the epidermal growth factor receptor, a potent driver for cell growth in many types of cancer.

Our pre-clinical work indicates INGN 241 effectively kills cancer cells that are resistant to cisplatin, one of the most commonly used chemotherapeutic agents. These pre-clinical studies identified a novel defect in a protein degradation pathway in the cisplatin-resistant cells. This defect enhances the activity of INGN 241, suggesting that INGN 241 may have particular utility in treating cancers that do not respond to cisplatin. We have also observed that INGN 241 can restore cisplatin sensitivity to certain cancer cells that have become cisplatin-resistant.

In pre-clinical studies, we have observed the expression of mda-7 in ovarian cancer cells activates a cell death or apoptotic pathway regulated by the Fas signaling system, a key signaling system in immune regulation, apoptosis and drug resistance. This activation resulted in significant increases in apoptosis and inhibition of cancer cell proliferation that were specific to cancer cells. These effects were not observed in normal ovarian tissue, supporting previous data showing a cancer-selective effect of INGN 241.

We have published preclinical data describing how an important tumor survival pathway impacts the anticancer activity of INGN 241. Inhibition of this pathway, known as NF-kB, enhanced the tumor killing effects of INGN 241 in cell culture and in preclinical models of human tumors. Researchers at Introgen and The University of Texas M. D. Anderson Cancer Center conducted these studies. The data appear in publication *Molecular Cancer Therapeutics*.

We have published preclinical data demonstrating that vitamin E succinate (VES) enhances the cytotoxic effects of INGN 241 in ovarian cancer cells. VES is a derivative of Vitamin E that has demonstrated potent antitumor activity in cell and animal models of cancer. Researchers at Introgen and The University of Texas M. D. Anderson Cancer Center collaborated on the studies. The results appear in the publication *Cancer Letters*.

We have published the results of a pre-clinical study indicating INGN 241 may suppress the growth *in vivo* of non-small cell lung cancer through apoptosis in combination with anti-angiogenesis. The data demonstrate INGN 241 can inhibit production of the VEGF protein, a potent inducer of angiogenesis, within lung cancer cells, which in turn inhibits tumor angiogenesis, a key requirement for tumor growth.

Pre-clinical work has demonstrated administration of INGN 241 results in the development of systemic immune responses against tumor cells and suggests INGN 241 could be used as a novel cancer molecular immunotherapy. In pre-clinical studies, implantation of INGN 241-treated tumor cells into mice resulted in significant inhibition of tumor growth. Significantly, mice immunized with INGN 241-treated cells showed inhibition of tumor growth after a subsequent challenge with additional tumor cells.

We have conducted pre-clinical studies with INGN 241 in breast cancer cell lines as a single agent, as well as in combination with radiation therapy, with chemotherapy (Taxotere® or Adriamycin®), with the hormone inhibitor Tamoxifen® and with Herceptin®, a biologic cancer therapy. In all settings, INGN 241 reduced cell growth and increased programmed tumor cell death (apoptosis). This effect was enhanced when combined with drugs currently used to treat breast cancer. In animal models of breast cancer, treatment with INGN 241 alone or in combination with radiation therapy resulted in significant decreases in tumor growth. In particular, our pre-clinical studies have shown treatment with a combination of INGN 241 plus Herceptin® induces cell death in Her-2/neu positive breast cancer cells at a rate greater than that seen with either agent alone. In these studies, it was also noted while Herceptin® exhibited no activity on Her-2/neu negative cells, INGN 241 did induce cell death in these cells.

Pre-clinical studies indicate the mda-7 protein released from cells treated with INGN 241 can kill nearby, untreated breast cancer cells resulting in additional therapeutic effect. This bystander effect occurs when the therapeutic protein binds to certain receptors on nearby cancer cells. We believe this bystander effect is significant because it could indicate the number of cancer cells INGN 241 can kill is greater than the number of cells that take up this novel investigational cancer therapy.

Pre-clinical studies have demonstrated that INGN 241 can induce human lung cancer cells to undergo apoptosis, or programmed cell death, through the synergistic action of INGN 241 and a class of tumor-targeted drugs known as heat shock protein 90 (Hsp90) inhibitors. We have observed that the combination of INGN 241 and two Hsp90 inhibitors can result in the enhancement of cell death in lung cancer cells. This combination treatment inhibited tumor cell

movement, suggesting an anti-metastatic effect.

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Findings and results arising from our development of INGN 241 have also been published in the *Journal of Leukocyte Biology*, *Cancer Gene Therapy*, *Cancer Research*, *Molecular Therapy*, *Oncogene*, *Surgery*, and *International Immunopharmacology*. Data from this work have also been presented at the annual San Antonio Breast Cancer Symposium.

We have exclusive licenses from Columbia University and The University of Texas M. D. Anderson Cancer Center to mda-7 tumor suppressor technology for our therapeutic applications. We originally licensed aspects of this technology from Corixa Corporation (Corixa), which was subsequently acquired by GlaxoSmithKline, which in turn recently assigned its interest in this license to Columbia University. The technology licensed from M. D. Anderson Cancer Center was developed pursuant to sponsored and collaborative research programs over the past several years. Pre-clinical studies regarding the active component of INGN 241 have included research at The University of Texas M. D. Anderson Cancer Center and Columbia University. We have an exclusive license to a family of patent applications covering methods and compositions of the mda-7 tumor suppressor with several types of currently available therapies, including conventional chemotherapies, vascular endothelial growth factor inhibitors, such as Avastin® (bevacizumab), non-steroidal anti-inflammatory drugs, which include COX-2 inhibitors such as Celebrex®, (celecoxib) and proteasome inhibitors, which can increase therapeutic functionality, such as Velcade® (bortezomib). **INGN 225 (p53 molecular immunotherapy)**

We are developing INGN 225 using the p53 tumor suppressor in a different manner to create a molecular immunotherapy for cancer that stimulates a particular type of immune system cell known as a dendritic cell. Research published in *Current Opinion in Drug Discovery & Development* concluded that the p53 tumor suppressor can be used with a patient's isolated dendritic cells as an antigen delivery and immune enhancing therapeutic strategy. Pre-clinical testing has shown that the immune system can recognize and kill tumors after treatment with dendritic cells stimulated by the p53 tumor suppressor, which suggests a molecular immunotherapy consisting of dendritic cells stimulated by p53 could have broad utility as a treatment for progression of tumors.

We have completed a Phase 1/2 clinical trial in collaboration with the Moffitt Cancer Center at the University of South Florida in patients with small cell lung cancer. We are also conducting a Phase 1/2 trial in patients with breast cancer in collaboration with the University of Nebraska. In both trials, INGN 225 is administered after the patients have been treated with standard chemotherapy.

The results from the Phase 1/2 trial in patients with extensive-stage small cell lung cancer who were previously treated with chemotherapy indicate that positive immune responses to INGN 225 were observed in 42 percent of evaluable patients. Of those with positive immune responses, 78.6 percent responded to chemotherapy compared with only 33 percent of those without immune responses. The association of INGN 225 immune responses with increased responses to subsequent chemotherapy was statistically significant ($p=0.01$). The tumor response rate in patients with platinum-resistant disease who received chemotherapy following INGN 225 was 45 percent, which compares very favorably with a historical response rate of typically less than 15 percent in these patients. Patients with this type of lung cancer have a grave prognosis with a median survival of approximately six months. In the 43 patients evaluable for survival following INGN 225 treatment, survival was superior to historical controls and five patients remain progression free from 378 to 894 days following vaccination with INGN 225.

We believe the data indicate INGN 225 may sensitize tumors to the effects of platinum and taxane chemotherapies. Of particular interest is the observation that patients with highly aggressive disease (termed platinum resistant) showed improved response rates and increased survival compared to historical controls. These findings are consistent with the results observed in lung and breast cancer patients treated with ADVEXIN therapy that increased the expected effects of cisplatin, taxane and doxorubicin chemotherapies. As platinum, taxanes and doxorubicin are among the most common types of cancer chemotherapies, these findings may have important implications for improving the efficacy of these widely utilized cancer treatments.

INGN 234 (p53 topical)

We are developing INGN 234 for the prevention of oral cancers and the treatment of oral leukoplakia. We are conducting a Phase 1 clinical trial in which p53 is being administered in an oral mouthwash formulation to prevent precancerous oral lesions from developing into cancerous lesions. We are conducting pre-clinical work on other topical administrations of tumor suppressors to control or prevent oral or dermal cancers. We are investigating

multiple delivery platforms, including both viral and non-viral approaches. We are also investigating combining delivery of our therapies with rinses, patches, ointments and enhancing polymers. We believe the opportunity exists to develop non-toxic treatments for pre-malignant and malignant cells that can be easily exposed to natural biological tumor suppressor and DNA repairing molecules.

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We have entered into an alliance agreement with Colgate-Palmolive to develop and potentially market oral healthcare products. See Part I, Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operation Business and Collaborative Arrangements Alliance with Colgate-Palmolive Company below for further discussion of this alliance agreement.

INGN 401 (FUS-1)

INGN 401 uses systemically administered nanoparticles to express the tumor suppressor FUS-1. We exclusively license the FUS-1 technology from M. D. Anderson Cancer Center.

A Phase 1/early Phase 2 clinical trial is ongoing at M. D. Anderson Cancer Center testing INGN 401 in patients with advanced non-small cell lung cancer who have been treated previously with chemotherapy. INGN 401 was successfully delivered into the tumors of stage IV lung cancer patients and was found to be active in patients metastatic non-small cell lung cancer tumors. This finding is the first clinical demonstration that a gene can be injected intravenously and be taken up and expressed at high levels in cancer cells at distant sites.

The interim results of this clinical trial were presented by the M. D. Anderson Cancer Center investigators at the 2007 annual meeting of the American Association of Cancer Research. That presentation noted this clinical trial consists of thirteen patients first treated with front line cisplatin combination chemotherapy, which failed to halt their disease. They received INGN 401 as a second line therapy. At the time of publication, the median survival time for the patients in this study is 14.6 months which compares favorably to a seven-month median survival time for patients receiving conventional second line therapy. No significant drug-related toxicity has been observed with respect to INGN 401. The clinical trial continues and no maximum tolerated dose has been established.

Pre-clinical data suggests that INGN 401 may have utility as a monotherapy in lung cancer. We have observed significant inhibition of tumor growth in lung cancer animal models following INGN 401 monotherapy treatment when compared with untreated animals.

Pre-clinical data suggests that a combination of ADVEXIN therapy and INGN 401, administered intravenously in nanoparticle formulations, is capable of significantly shrinking metastatic tumors in models of human lung cancer. The data indicates that while ADVEXIN therapy and INGN 401 are each effective as a monotherapy, more powerful results were observed when the treatments were combined. The data also indicates that the nanoparticle treatments had no demonstrable adverse effects on normal cells.

INGN 401 has demonstrated synergistic activity with gefitinib (Iressa®), a novel class of anti-cancer agents that decrease tumor growth by inhibiting growth factor receptors that promote tumor proliferation. While gefitinib can produce dramatic responses in a small subset of lung cancer patients, most lung cancers are refractory to its effects. The data indicate nanoparticle delivery of INGN 401 can synergize with Gefitinib in killing lung tumor cells resistant to gefitinib alone. Furthermore, in gefitinib-sensitive tumors, INGN 401 delivery significantly enhanced anti-cancer activity.

Data and findings from our work to develop INGN 401 have been published in *Cancer Gene Therapy* and *Cancer Research*. We are working with investigators at MDACC to design a pivotal clinical trial for INGN 401.

INGN 402 and INGN 403 (nanoparticle formulations of p53 and mda-7, respectively)

We are developing two nanoparticle formulations for systemic delivery. INGN 402 contains the p53 tumor suppressor and INGN 403 contains the mda-7 tumor suppressor, also known as interleukin 24 (IL-24). Early studies with these new nanoparticle drug candidates have demonstrated a good safety profile and promising anti-cancer activity in murine lung tumor models. Data from the mda-7 nanoparticle studies was published in *DNA and Cell Biology* and presented at the annual meetings of the ASGT and ASCO.

INGN 007 (oncolytic viral therapy)

We are developing INGN 007, a replication-competent viral therapy, which is also called an oncolytic virus, in which viruses bind directly to cancer cells, replicate in those cells, and cause those cancer cells to die. Pre-clinical testing in animal models indicates INGN 007 over-expresses a molecule that allows the vector to saturate the entire tumor. This testing has demonstrated that INGN 007 has a favorable safety profile and significantly inhibits tumor growth. Findings from this work to develop INGN 007 have been published in *Cancer Research* and were presented at a meeting of the ASCO. We are developing this replication-competent viral therapy through our strategic collaboration with VirRx. We have completed our Investigation New Drug application for INGN 007 in solid tumors.

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Other Research and Development Programs

We are conducting a number of pre-clinical and research programs involving a variety of targeted therapies for the treatment of cancer. These programs involve molecules that act through diverse mechanisms to inhibit the growth of or kill cancer cells.

We license from M. D. Anderson Cancer Center a group of molecules known as the 3p21.3 family. Pre-clinical research performed on these molecules by collaborators at The University of Texas Southwestern Medical Center and M. D. Anderson Cancer Center suggests that the 3p21.3 family plays a critical role in the suppression of tumor growth in lung and other cancers. This family of molecules includes the FUS-1 tumor suppressor we are testing as INGN 401 and the NPRL2 gene. We are working with M. D. Anderson Cancer Center to further evaluate other 3p21.3 family molecules as clinically relevant therapeutics.

The NPRL2 gene is believed to be important in the genesis of multiple types of cancer, including lung cancer and renal cell cancer. Preclinical data with the NPRL2 tumor suppressor gene demonstrated that systemic treatment using NPRL2 nanoparticles in combination with cisplatin resulted in a 90% inhibition of tumor growth in human lung cancer cells compared to control treatments. The ability to use a biomarker assay for NPRL2 to identify patients who might not experience significant benefit from treatment with cisplatin alone could represent an important advance in cancer treatment. Development of NPRL2 systemic nanoparticles may help patients whose tumors are resistant to cisplatin by re-sensitizing tumors to this commonly used therapy. Study results involving the NPRL2 treatment have been published in *Cancer Research*, a biomedical journal, and *Cancer Wise*, an electronic publication of M. D. Anderson Cancer Center.

We are evaluating additional molecules, including BAK, which hold promise as therapeutic candidates. BAK is a pro-apoptotic molecule that kills cancer cells. We are working with our collaborators at M. D. Anderson Cancer Center to identify and develop both viral and non-viral vectors containing this therapeutic molecule. We have exclusive rights to use the BAK molecule under a license with LXR Biotechnology, Inc. (LXR), with the LXR rights being subsequently sold to Tanox, Inc. (Tanox).

We believe our research and development expertise gained from our molecular therapies for cancer is also applicable to other diseases that, like cancer, result from cellular dysfunction and uncontrolled cell growth. As a result, we are conducting research in collaboration with medical institutions to understand the safety and effectiveness of our molecular therapy product candidates in the treatment of other diseases.

Introgen Enabling Technologies

We have a portfolio of technologies, referred to as enabling technologies, for administering targeted molecular products to patients and for enhancing the effects of these products. We plan to utilize these technologies to develop additional products to treat cancer and other diseases which, like cancer, result from cellular dysfunction and uncontrolled cell growth.

Nanoscale Viral Delivery Systems

We have demonstrated that ADVEXIN therapy and INGN 241, which use our adenoviral vector system, enter tumor cells and express their proteins despite the body's natural immune response to the adenoviral vector. While the adenoviral vector system used appears to be appropriate for the treatment of cancer by local administration, we have developed a number of additional systems that utilize modified adenoviral vectors for delivery. These systems also may be applicable to indications where activity of the therapeutic molecule for disease treatment is required for longer periods of time or where systemic administration may be necessary.

Nanoparticle Systemic Delivery Platform

We hold an exclusive, worldwide license to a portfolio of patents from M. D. Anderson Cancer Center focused on the delivery of biologically active proteins, polypeptides and peptides using novel nanoparticle delivery complexes. These systemically-delivered nanoparticles are applicable to a wide variety of bioactive protein-derived molecules. This technology is directed to specially designed nanoparticles that carry and deliver therapeutic bioactive proteins, polypeptides and peptides to targeted cells, such as cancer cells.

These nanoparticle formulations have certain therapeutic advantages. While peptides alone may be rapidly removed from circulation, requiring frequent administration and high doses, our nanoparticle-polypeptide formulations can increase therapeutic activity and protect against rapid degradation normally associated with peptide

therapy. In addition, our peptide nanoparticles can include special targeting molecules to further enhance cellular uptake and to improve therapeutic efficacy.

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We have licensed and are developing a non-viral, nanoparticle delivery platform as a complementary delivery technology for certain types of cancers, or clinical indications, particularly those that require systemic administration. We are using this technology in INGN 401, INGN 402 and INGN 403.

Data published in *DNA and Cell Biology* highlight the potential utility of combining our nanoparticle delivery system with the mda-7 tumor suppressor for the treatment of lung cancer. This data demonstrate that combining this innovative delivery system with the mda-7 tumor suppressor results in potent anti-cancer effects and systemic tumor growth inhibition in an animal model of lung cancer. We believe combining potent anti-cancer tumor suppressors, such as mda-7 or p53, with our nanoparticle delivery system could allow development of clinical strategies to attack metastatic cancers.

Replicating Viral Delivery Systems

Through our strategic collaboration with VirRx, we are developing replication-competent viral therapies, also known as oncolytic viruses, in which viruses bind directly to cancer cells, replicate in those cells, and cause those cancer cells to die. This technology forms the basis for our INGN 007 product development. We anticipate pursuing clinical confirmation as to whether this self-amplifying delivery system can complement our existing adenoviral delivery system, which is replication disabled, in selected therapeutic scenarios, in applications beyond INGN 007.

Additional Enabling Technologies

Our research and licensing activities include a number of additional technologies that expand our capabilities. These activities include the following:

Multi-Molecule Vector System. This technology is designed to combine multiple therapeutic molecules with a vector. This approach has the potential for use with both viral and non-viral delivery systems to allow the activity of more than one molecular therapy at a time for disease treatment.

Pro-Apoptotic Molecule Delivery System. This technology is designed to allow the activity of pro-apoptotic, or apoptosis-inducing, molecules during treatment only, while temporarily suppressing the ability of the apoptotic molecule to kill producer cells during production. This system could facilitate higher volume production of pro-apoptotic agents.

Tissue-Specific Targeting Systems. This technology is designed to promote the activity of the therapeutic molecule in only those cells which have been affected by the disease being targeted. It is intended to be applied to both viral and non-viral vectors.

Manufacturing and Process Development

Commercialization of a targeted molecular therapy product requires process methodologies, formulations and quality release assays in order to produce high quality materials at a large scale. We believe the expertise we have developed in the areas of manufacturing and process development represents a competitive advantage. We have developed scale-up methodologies for both upstream and downstream production processes, formulations that are safe and stable, and product release assays that support product quality control.

We own and operate state-of-the-art manufacturing facilities, including a commercial-scale, validated manufacturing facility designed to comply with the FDA's Current Good Manufacturing Practice requirements, commonly known as CGMP requirements. We have produced numerous batches of ADVEXIN therapy clinical material for use in our Phase 1, 2 and 3 clinical trials. The design and processes of the facility used for ADVEXIN therapy production have been reviewed with the FDA. We plan to use our facilities for the market launch of ADVEXIN therapy. We also use our facilities to produce INGN 241 and other investigative materials for use in clinical trials of those product candidates. From time to time, as requirements for our own products allow, we also manufacture pre-clinical and clinical materials for outside parties for a fee under contract services arrangements.

As a result of an audit and inspection by a European Union Qualified Person (QP), we are certified with the Medicines and Healthcare Products Regulatory Agency (MHRA) that our facilities and production processes are compliant with European Good Manufacturing Practices for the manufacture and testing of ADVEXIN therapy. The MHRA is the competent authority in the UK and is a component of the EMEA.

Table of Contents**Business and Collaborative Arrangements*****Alliance with Colgate-Palmolive Company***

In November 2005, we entered into an alliance agreement with Colgate-Palmolive to develop and potentially market oral healthcare products. In connection with the alliance agreement and pursuant to a common stock purchase agreement, Colgate-Palmolive purchased 3,610,760 shares of our common stock at a price of \$5.539 per share for a total of approximately \$20.0 million. Under the common stock purchase agreement, Colgate-Palmolive agreed to vote these shares and any other shares of our capital stock owned by it in favor of corporate actions approved by our Board of Directors. This voting agreement is subject to suspension or termination upon certain events specified in the common stock purchase agreement.

Pursuant to the alliance agreement, we will conduct research and development activities involving specialized formulations of our molecular therapies (such as p53, mda-7 and FUS-1) targeted at precancerous conditions of the oral cavity and at oral cancer. The objective is to market these formulations as oral healthcare products. The alliance agreement excludes certain of our cancer product candidates, including ADVEXIN therapy, INGN 241, INGN 225 and INGN 401.

Colgate-Palmolive has a first right to negotiate development, manufacturing, marketing and distribution rights with us for specifically designed oral healthcare products for use in the human oral cavity that may result from these research and development activities. We agreed to use commercially reasonable efforts to develop one or more specialized oral formulations through completion of Phase 2 clinical trials within the seven-year term of the alliance agreement. We can terminate our development efforts earlier under certain circumstances, including if the prospects for these products do not warrant further investment, or if we expend \$15.0 million in this effort. In calculating the amount of our expenditures on these efforts, we may include grant funding received by us or our collaborators for work performed by third parties (e.g., universities and other institutions) that is directly related to program activities, as specified in the alliance agreement. The term of the alliance agreement continues to November 2012, unless earlier terminated by the parties as provided in the alliance agreement.

VirRx, Inc.

We are working with VirRx to investigate other vector technologies, specifically replication-competent viral therapies, for delivering products into targeted cells. These technologies form the basis for our INGN 007 product candidate.

Under an agreement with VirRx, we purchased \$2,475,000 of VirRx's Series A Preferred Stock for cash, of which we purchased zero during the three months ended June 30, 2007 and June 30, 2006, respectively, and zero and \$150,000 during the six months ended June 30, 2007 and June 30, 2006, respectively. We are not obligated to make any additional such purchases at this time. We recorded these purchases as research and development expense.

Provided the agreement with VirRx remains in place, we are required to make additional milestone stock purchases, either for cash or through the issuance of our common stock, upon the completion of Phase 1, 2 and 3 clinical trials involving technologies licensed under this agreement. We are required to make a \$5.0 million cash milestone payment to VirRx, for which we will receive no VirRx stock, upon approval by the FDA of a BLA for the first collaboration product based on these technologies. To the extent we have already made cash milestone payments, we may receive a credit of 50% of the Phase 2 clinical trial milestone payments and 25% of the Phase 3 clinical trial milestone payments against this \$5.0 million cash milestone payment.

The additional milestone stock purchases and cash payment are not anticipated to be required in the near future. We may unilaterally terminate this collaboration and license agreement with 90 days prior notice, which would also terminate the requirement for us to make any additional stock purchases.

Silence Therapeutics plc

We own approximately 6.6% of the issued share capital of Silence Therapeutics plc (formerly SR Pharma plc). We purchased these shares for approximately \$3.0 million in July 2005. The shares we own had a quoted market value of \$19.7 million at June 30, 2007 and \$18.0 million at August 3, 2007. Silence Therapeutics is a European biotechnology company publicly traded on the Alternative Investment Market of the London Stock Exchange (LSE) that is developing oncology and other products.

Academic and Other Collaborations

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Academic collaboration agreements have been a cost-effective way of expanding our intellectual property portfolio, generating data necessary for regulatory submissions, accessing industry expertise and finding new technology in-license candidates, all without building a large internal scientific and administrative infrastructure.

The University of Texas M. D. Anderson Cancer Center

Many of our core technologies were developed by scientists at The University of Texas M. D. Anderson Cancer Center in Houston, Texas, one of the largest academic cancer centers in the world. We sponsor research conducted at M. D. Anderson Cancer Center to further the development of technologies that have potential commercial viability. Through these sponsored research agreements, we have access to M. D. Anderson Cancer Center's resources and expertise for the development of our technology. In addition, we have the right to include certain patentable inventions arising from these sponsored research agreements under our exclusive license with M. D. Anderson Cancer Center.

We have exclusive license agreements with The Board of Regents of the University of Texas System and M. D. Anderson Cancer Center covering many of the core technologies and products we are developing, including technology used for ADVEXIN therapy and other product candidate programs. These license agreements generally terminate on the date of expiration of the last to expire patents covered by these agreements (or earlier if no patent rights are applicable), and are terminable upon either party's breach, upon notice on a patent by patent basis or should we become insolvent.

To maintain the exclusivity of these licenses, we are required to conduct ongoing research and development of, and/or use commercially reasonable efforts to, commercialize these technologies. We have agreed to pay M. D. Anderson Cancer Center royalties on sales of products utilizing these technologies. We are obligated to reimburse any of M. D. Anderson Cancer Center's costs that may be incurred in connection with obtaining patents related to the licensed technologies. Our strategy for product development is designed to take advantage of the significant multidisciplinary resources available at M. D. Anderson Cancer Center. These efforts have resulted in our becoming a significant corporate sponsor of activities at M. D. Anderson Cancer Center in recent years and have yielded to us exclusive patent and licensing rights to numerous technologies.

National Cancer Institute

We have two cooperative research and development agreements, or CRADA, with the NCI. Under our most recent CRADA, the NCI will conduct a Phase 2 clinical study to treat cancer patients with genetically engineered therapies targeted to abnormal p53. This clinical study will combine our p53 formulations with a novel p53 targeted treatment developed by investigators at the NCI. This agreement continues until March 2012 and is terminable earlier upon the mutual consent of the parties. We will pay the NCI approximately \$19,000 per quarter through March 2009 to support their technical, statistical and administrative activities under this CRADA.

Under our other CRADA, the NCI agreed to sponsor and conduct pre-clinical and human clinical trials to evaluate the effectiveness and potential superiority to other treatments of ADVEXIN therapy against a range of designated cancers, including breast cancer, ovarian cancer, bladder cancer and brain cancer. To date, the NCI has conducted numerous Phase 1 clinical trials for ADVEXIN therapy. The NCI provided most of the funding for these activities. We supplied the NCI with ADVEXIN therapy product to be administered in these trials. We have exclusive rights to all pre-clinical and clinical data accumulated under the CRADA. The CRADA has a flexible duration, but is terminable upon the mutual consent of the parties or upon 30 days notice of either party.

Research and License Agreement for mda-7 Tumor Suppressor Programs

We have exclusive licenses from Columbia University and The University of Texas M. D. Anderson Cancer Center to mda-7 tumor suppressor related technology for our therapeutic applications. We originally licensed aspects of this technology from Corixa, which was subsequently acquired by GlaxoSmithKline, which in turn recently assigned its interest in this license to Columbia University. The technology licensed from M. D. Anderson Cancer Center was developed pursuant to sponsored and collaborative research programs over the past several years. The agreement is effective until the last to expire of the subject patents. It is terminable upon the breach or insolvency of either party. Under the original sublicense agreement, now controlled by Columbia, we paid Corixa an initial license fee and have agreed to make additional payments upon the achievement of development milestones, as well as royalty payments on product sales. We also made research payments to Corixa in connection with research it performed involving the mda-7 tumor suppressor.

Moffitt Cancer Center

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We are collaborating with the H. Lee Moffitt Cancer Center and Research Institute to advance our INGN 225 molecular cancer immunotherapy program. Moffitt Cancer Center has conducted pre-clinical research with us, and they are currently treating patients in the ongoing INGN 225 clinical study. We are designing additional studies in collaboration with Moffitt Cancer Center personnel to continue clinical research in the dendritic cell molecular immunotherapy field.

Marketing and Sales

We are focusing our current product development and commercialization efforts on the oncology market. This market is characterized by its concentration of specialists in relatively few major cancer centers, which we believe can be effectively addressed by a small, focused sales force. As regulatory approval of one or more of our product candidates for commercial sale approaches, we will address the methods of sales and marketing available to us. We will continue to evaluate the merits of building our own direct sales force, pursuing marketing and distribution arrangements with corporate partners or some combination of both.

Patents and Intellectual Property

Our Portfolio

Our success will depend in part on our ability to develop and maintain proprietary aspects of our technology. To this end, we have an intellectual property program directed at developing proprietary rights in technology that we believe may be important to our success. We also rely on a licensing program to ensure continued strong technology development and technology transfer from companies and research institutions with whom we work. We have entered into a number of exclusive license agreements or options with companies and institutions, including M. D. Anderson Cancer Center, Sidney Kimmel Cancer Center, Aventis Pharmaceutical Products, Inc. (Aventis), which is now Sanofi-Aventis, Columbia University, VirRx and LXR, with the LXR rights being subsequently sold to Tanox. In addition to patents, we rely on trade secrets and proprietary know-how, which we seek to protect, in part, through confidentiality and proprietary information agreements.

We currently own or have an exclusive license to a large number of issued and pending United States and foreign patents and patent applications. Currently, the last to expire patents key to our ADVEXIN therapy expire in 2020, however, we have applications pending that could extend our coverage for our ADVEXIN therapy beyond these dates. Patents key to our INGN 241 product, using the mda-7 tumor suppressor, expire in the time frame of 2013 to 2016, although we have pending patent cases that could extend our protection beyond these expiration dates. The exclusive licenses that give us rights on the patents, and applications that such licenses cover, will expire no earlier than the life of any patent covered under the license.

Adenoviral p53 Compositions and Therapies

In developing our patent portfolio, we have focused our efforts in part on seeking protection for our potential products and how they will be used in the clinical trials. Arising out of our independent development programs and work with M. D. Anderson Cancer Center, we currently have an exclusive license to a number of United States and corresponding international patents and patent applications directed to adenoviruses that contain p53, referred to as adenoviral p53, adenoviral p53 DNA, adenoviral p53 pharmaceutical compositions, the production of adenoviral p53 compositions and the use of such compositions in various cancer therapies and protocols.

We have exclusively licensed from Aventis patent applications directed to adenoviral p53 and its clinical applications. We have an exclusive license to a United States patent application and corresponding international applications directed to the use of the p53 tumor suppressor in the treatment of cancer patients whose tumors express a normal p53 protein.

Combination Therapy with Tumor Suppressors, including p53 and mda-7/IL24

Our portfolio development includes seeking protection for clinical therapeutic strategies that combine the use of either the p53 tumor suppressor or the mda-7/IL-24 tumor suppressor with traditional cancer therapies. In this regard, also arising out of our work with M. D. Anderson Cancer Center, we have an exclusive license to a number of issued United States patents and applications with corresponding international patents and applications directed to cancer therapy using either the p53 tumor suppressor or the mda-7/IL-24 tumor suppressor in combination with conventional radiotherapy and/or other anti-cancer compounds. Such compounds include:

DNA-damaging agents and conventional chemotherapies;

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Immunotherapeutics (e.g., Herceptin®);

COX-2 inhibitors (e.g., celecoxib);

Hsp90 inhibitors;

Proteasome inhibitors;

VEGF inhibitors (e.g., Avastin®); and

EGFr inhibitors (e.g., Tarceva®, Iressa®).

These United States patents and applications and corresponding international patents and applications concern the therapeutic application of the p53 tumor suppressor or the mda-7/IL-24 tumor suppressor before, during or after treatment with radiotherapy or other anti-cancer compounds.

To further extend our portfolio as it relates to combinatorial anti-cancer therapy, we have licensed from Aventis a United States patent and corresponding international patents and applications directed to therapy using the p53 tumor suppressor together with taxanes such as Taxol® or Taxotere®. We have exclusively licensed a United States patent application and corresponding international applications directed to the use of the p53 tumor suppressor in combination with surgical intervention in cancer therapy.

Adenovirus Production, Purification and Formulation

Another focus of our research has involved the development of procedures for the commercial-scale production of our potential adenoviral-based products, including that of ADVEXIN therapy. We own four issued United States patents and related European patents, as well as a number of pending United States applications and corresponding international applications directed to highly purified adenoviral compositions, commercial-scale processes for producing adenoviral-based compositions having a high level of purity and storage-stable formulations. These patents and patent applications include procedures for preparing commercial quantities of recombinant adenovirus products and include procedures applicable to the p53 tumor suppressor, as well as any of our other potential products.

We have licensed from Aventis in the p53 field a United States patent and corresponding international applications directed to processes for the production of purified adenoviruses, which are useful for our product applications. With respect to storage-stable formulations, we were issued a United States patent directed to compositions and methods concerning improved, storage-stable adenovirus formulations. This patent is not limited to our ADVEXIN therapy product candidate and may eventually replace formulations currently in use.

Other Tumor Suppressors

We either own or have exclusively licensed rights in a number of other patents and applications directed to compositions and clinical applications of various tumor suppressors other than p53, including the mda-7, BAK, the 3p21.3 family (FUS-1) and anti-sense K-ras. We have exclusively licensed or optioned rights in a number of issued United States patents covering the use of the mda-7 and BAK tumor suppressors.

Other Therapeutic, Composition and Process Technologies

We own or have exclusively licensed a number of United States and international patent applications on a range of additional technologies. These licenses include various applications and patents relating to p53, combination therapy with 2-methoxyestradiol, anti-proliferative factor technologies, retroviral delivery systems, stimulation of anti-p53 and screening and product assurance technologies.

We have exclusively licensed a number of United States and international applications directed to various improved vector applications employing more than one molecular therapy for disease treatment, as well as applications directed to the delivery of molecular therapies for disease treatment without the use of a vector, or non-viral therapy. For example, a United States patent, exclusively licensed to us, was issued that is directed to adenoviruses that exhibit tissue specific replication. We have exclusive rights

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in an issued United States patent and corresponding international applications directed to a low toxicity analogue of IL-24, also called F42K. We also have been issued exclusively licensed patents in Europe directed to our nanoparticle delivery system for delivering tumor suppressor genes.

Benzimidazole Small Molecule Cancer Therapy

We have exclusively licensed a United States and a corresponding international patent application directed to the use of a family of known anti-helminthic benzimidazole molecules, most notably mebendazole, in the treatment of cancer. These applications are directed generally to the use of small molecules of the benzimidazole family to induce apoptosis in cancers, as well as to treat cancer patients, particularly those having p53-related cancers. Both of these therapeutic actions are based on the discovery by our scientists and their collaborators that members of the benzimidazole family will actively induce apoptosis in cancer cells, particularly in conjunction with the action of an endogenous or exogenously added p53 tumor suppressor.

Trade Secrets

We rely on trade secrets law to protect technology where we believe patent protection is not appropriate or obtainable. Trade secrets are difficult to protect. We generally require employees, academic collaborators and consultants to enter into confidentiality agreements covering our trade secrets and other confidential information. Despite these measures, we may not be able to adequately protect our trade secrets or other proprietary information.

We are a party to various license agreements that give us rights to use specified technologies in our research and development processes. If we are not able to continue to license this technology on commercially reasonable terms, our product development and research may be delayed. In the case of technologies that we have licensed, we do not have the ability to make the final decisions on how the patent application process is managed, and accordingly are unable to exercise the same degree of control over this intellectual property as we exercise over our internally developed technology.

Our research collaborators and scientific advisors have rights to publish data and information in which we have rights. If we cannot maintain the confidentiality of our technology and other confidential information in connection with our collaborations, then our ability to receive patent protection or protect our proprietary information will be diminished.

Financial Overview

Since our inception in 1993, we have used our resources primarily to conduct research and development activities for ADVEXIN therapy and, to a lesser extent, for other product candidates. At June 30, 2007, we had an accumulated deficit of \$185.6 million. We anticipate we will incur losses in the future that may be greater than losses incurred in prior periods. At June 30, 2007, we had cash, cash equivalents and short-term investments of \$27.9 million, compared to \$41.3 million at December 31, 2006.

We have used cash primarily as follows (in thousands):

	Six Months Ended June 30,	
	2006	2007
Operating activities	\$11,516	\$11,545
Purchases of property and equipment	85	27
Principal payments on notes payable	434	557
Payment of offering costs related to previous sales of common stock	\$	\$ 1,571

We have received cash primarily as follows (in thousands):

	Six Months Ended June 30,	
	2006	2007
Proceeds from notes payable	\$346	\$ 94
Proceeds from stock option exercises	29	145

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We expect to incur substantial additional operating expense and losses over the next several years as our research, development, pre-clinical testing and clinical trial activities continue and as we evolve our operations and systems to support commercialization of our product candidates. These losses, among other things, have caused and may cause our total assets, stockholders' equity and working capital to decrease.

We currently earn revenue or income from research grants from U.S. Government agencies, contract services and process development activities, the lease of a portion of our facilities to M. D. Anderson Cancer Center and interest income on cash placed in short-term, investment grade securities. In order to fund our operating losses, we will need to raise additional funds through public or private equity offerings, debt financings or additional corporate collaboration and licensing arrangements. We do not know whether such additional financing will be available when needed or on terms favorable to us or our stockholders.

In November and December 2006, we sold approximately 6.3 million shares of our common stock in direct equity offerings pursuant to a shelf registration statement for an aggregate purchase price of approximately \$30.0 million. Our net proceeds from these transactions, after related expenses payable in cash, were approximately \$27.6 million. These expenses include approximately \$2.1 million of fees to the placement agent for this transaction, of which \$1.5 million were paid in January 2007 and \$601,000 are payable in equal installments over 24 months through December 2008. We will issue warrants to the placement agent to purchase up to 73,199 shares of our common stock at a price of \$5.03 per share, exercisable beginning November 2008, and 326,801 shares of our common stock at a price of \$4.75 per share, exercisable beginning December 2008. These warrants will expire in December 2015.

On February 2, 2007, we filed a registration statement on Form S-3 (Commission File No. 333-140424), seeking to register for sale shares of our common stock with an aggregate offering price of up to \$150.0 million. On April 17, 2007, we filed an amendment to the registration statement, and on April 19, 2007, the registration statement was declared effective.

Stock Options

From time-to-time, we grant options to purchase our common stock to our directors, officers, employees and other service providers in recognition of their contribution to achieving our corporate objectives and as an incentive for their future contributions to the Company. These options typically vest under the following general terms:

Options issued to members of our Board of Directors vest monthly over 12 months.

Options issued to our Chief Executive Officer vest 100% on the date of grant.

Options issued to all other persons cliff vest at the rate of 25% per year over four years.

At June 30, 2007, we had 8,269,831 options outstanding to purchase our common stock, of which options to purchase 5,581,377 shares were vested and options to purchase 2,688,454 shares were unvested. These options have an exercise price equal to the market price of our common stock on the date of grant, with such exercise prices for options outstanding at June 30, 2007, ranging from \$0.45 to \$8.94 per share.

The Company issued 98,323 and zero shares of common stock related to exercises of stock options granted from its stock option plans for the three months ended June 30, 2007 and 2006, respectively. The Company issued 206,723 and 44,825 shares of common stock related to exercises of stock options granted from its stock option plans for the six months ended June 30, 2007 and 2006, respectively.

Restricted Stock

In connection with the formation of GPL, 150,000 shares of restricted common stock of that entity were granted to certain of our directors, officers, employees and key medical consultants as approved by our Board of Directors. The restricted common stock of GPL is designed to provide performance incentives similar in nature to a stock option plan. This stock is subject to transfer and other restrictions. These restrictions are subject to release under a four year vesting schedule that is contingent upon continued service by the stockholder to Introgen and/or GPL. This stock is voted by Introgen under proxy from the stockholders. This stock had a nominal value at the time it was issued such that the share-based compensation related to those shares at that time was not material.

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Stock Purchase Warrants

From time-to-time, we issue stock purchase warrants, generally to investors or placement agents, in connection with sales of our common stock. At June 30, 2007, we had warrants outstanding and obligations to issue warrants to purchase an aggregate of 1,400,032 shares of our common stock at prices ranging from \$4.60 per share to \$8.00 per share. These warrants expire on various dates through December 2015.

With respect to warrants for 686,087 of these shares exercisable through June 2008 at \$4.60 per share, we may force their exercise if the average closing market price of our common stock during any 20 consecutive trading days is greater than \$15.78 per share. These warrants also provide for the downward adjustment of their exercise price in the event we sell shares of our common stock at a price less than their current exercise price. The exercise price of these warrants was adjusted downward to \$4.60 per share in connection with the sale of shares of our common stock in November 2006.

Investment in Silence Therapeutics plc

As of June 30, 2007, we owned approximately 6.6% of the issued share capital of Silence Therapeutics plc. The shares we own had a fair market value of approximately \$19.7 million at June 30, 2007 and \$18.0 million at August 3, 2007. We paid approximately \$3.0 million for these shares. Silence Therapeutics is a European biotechnology company publicly traded on the Alternative Investment Market of the LSE that is developing oncology and other products.

London Stock Exchange

We are evaluating the feasibility of listing our common stock on the LSE, which would be in addition to the listing of our common stock on the Nasdaq Global Market in the United States. We believe an LSE listing may allow us to better leverage our assets on a global basis and, specifically, in Europe and Asia.

New Subsidiaries

During the six months ended June 30, 2007, we purchased 49% of the outstanding stock of Introgen Research Institute, Inc. for \$10,000. The other 51% of IRI is owned by our corporate Secretary, who is also an Introgen shareholder. We transferred to IRI an NIH grant originally awarded to us. IRI will be responsible for the remaining research contemplated by that grant and will receive future funding, if any, from the NIH under that grant. We have contractual relationships with IRI under which we may perform research and development services for them in the future. The amount of grant funding, if any, available to IRI to perform research and development is dependent upon many factors, including the availability of grants from government agencies, performance of the work and incurring the costs contemplated by the grants, the success in obtaining additional grants in the future and compliance with statutes and regulations governing such grants. For the three and six months ended June 30, 2007, we recorded grant income of \$213,000 related to grants held by IRI.

During the six months ended June 30, 2007, we established Introgen Global Limited (IGL), Gendux Pharmaceuticals Limited (GPL) and Gendux Molecular Limited (GML) to develop and commercialize targeted molecular medicines in European markets. We anticipate Introgen will license certain of its technologies to one or more of these entities in connection with those activities.

Introgen owns 100% of IGL. Introgen owns 85% of GPL in the form of preferred stock convertible by Introgen into common stock at any time. The other 15% of GPL is owned by certain of our directors, officers, employees and key medical consultants in the form of 150,000 shares of restricted common stock granted to them as approved by our Board of Directors. GPL owns 100% of GML.

The restricted common stock of GPL is designed to provide performance incentives similar in nature to a stock option plan. This stock is subject to transfer and other restrictions. These restrictions are subject to release under a four year vesting schedule that is contingent upon continued service by the stockholder to Introgen and/or GPL. This stock is voted by Introgen under proxy from the stockholders. This stock had a nominal value at the time it was issued such that the share-based compensation related to those shares at that time was not material.

We account for Introgen Therapeutic Inc.'s investment in these subsidiaries in accordance with the relevant provisions of generally accepted accounting principles, and specifically FIN 46(R), Consolidation of Variable Interest Entities (as amended). Accordingly, the subsidiaries' accounts are included in these consolidated financial statements. We record a non-controlling or

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minority interest for the portion of these subsidiaries we do not own to the extent such minority interest constitutes a liability in our financial statements. If those subsidiaries have an accumulated net loss, the minority interest is zero.

Critical Accounting Policies

Use of Estimates. The preparation of financial statements in conformity with generally accepted accounting principles in the United States requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expense during the reporting period. Actual results could differ from those estimates.

Cash, Cash Equivalents and Short-term Investments. Our cash, cash equivalents and short-term investments include investments in short-term, investment grade securities, which currently consist primarily of United States federal government obligations. These investments are classified as held-to-maturity and are carried at amortized cost. At any point in time, amortized costs may be greater or less than fair value. If investments are sold prior to maturity, we could incur a realized gain or loss based on the fair market value of the investments at the date of sale. We could incur future losses on investments if the investment issuer becomes impaired or the investment is downgraded.

Marketable Securities. Our marketable securities consist of issued share capital of other public companies and are classified as available-for-sale. Unrealized gains and losses are computed using the published share price of the applicable stock exchange at the close of business on the last day of the reporting period and are reported as a separate component of accumulated other comprehensive income (loss) in shareholders' equity until realized.

Revenue Recognition. Contract services revenue is recognized when the related services are completed and delivered to the customer. Deferred revenue is recorded for cash received for which the related work has not been completed and/or the related expense has not been incurred. Grant revenue is recognized as research expense relating to a grant is incurred and the work contemplated under the grant has been performed. Rental income from the sublease of laboratory space to third parties under leases that have variable monthly rent amounts over the term of the lease is recognized on a straight-line basis over the term of the lease. Any cash payments received in excess of rental income recognized is recorded as deferred revenue. Rental income is included in other income in the accompanying condensed consolidated statement of operations.

Research and Development Costs. In conducting our clinical trials of ADVEXIN therapy and other product candidates, we procure services from numerous third-party vendors. The cost of these services constitutes a significant portion of the cost of these trials and of our research and development expense in general. These vendors do not necessarily provide us billings for their services on a regular basis and, accordingly, are often not a timely source of information to determine the costs we have incurred relative to their services for any given accounting period. As a result, we make significant accounting estimates as to the amount of costs we have incurred relative to these vendors in each accounting period.

These estimates are based on numerous factors, including, among others, costs set forth in our contracts with these vendors, the period of time over which the vendor will render the services and the rate of enrollment of patients in our clinical trials. Using these estimates, we record expenses and accrued liabilities in each accounting period that we believe fairly represent our obligations to these vendors. Actual results could differ from these estimates, resulting in increases or decreases in the amount of expense recorded and the related accrual. We have consistently applied these estimation procedures in the past and plan to continue applying such procedures in the same manner during the foreseeable future. Our experience has been that our estimates have reasonably reflected the expense we actually incur.

Share-Based Compensation. Effective January 1, 2006, we adopted SFAS No. 123R, *Accounting For Share-Based Compensation*. From that date forward, we record share-based compensation expense based upon fair value for all stock options issued to all persons to the extent such options vest on January 1, 2006 or later. That expense is determined under the fair value method using the Black-Scholes option pricing model. We record that expense ratably over the period the stock options vest.

The Black-Scholes option pricing model we use to compute share-based compensation expense requires extensive use of accounting judgment and financial estimates. Items requiring estimation include the expected term option holders will retain their vested stock options before exercising them, the estimated volatility of our common stock

price over the expected term of a stock option, and the number of stock options that will be forfeited prior to the completion of their vesting requirements. Application of

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alternative assumptions could result in significantly different share-based compensation amounts being recorded in our financial statements.

We implemented SFAS No. 123R using the modified prospective transition method. Under this method, prior periods are not restated.

Recently Issued Accounting Pronouncements

In June 2006, the FASB issued Interpretation No. 48, Accounting for Uncertainty in Income Taxes, an interpretation of FASB Statement No. 109 (FIN 48). FIN 48 prescribes a recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. FIN 48 also provides guidance on derecognition, classification, interest and penalties, accounting in interim periods, disclosure, and transition. FIN 48 is effective for fiscal years beginning after December 15, 2006. We have adopted FIN 48 beginning January 1, 2007, which did not have a material impact on our financial position and results of operations.

On June 27, 2007, the Financial Accounting Standards Board (FASB) ratified the consensus reached by the FASB Emerging Issues Task Force on Issue No. 07-3, Accounting for Advance Payments for Goods or Services to Be Used in Future Research and Development Activities (EITF 07-3). EITF 07-3 requires entities to defer income statement recognition of nonrefundable advance payments for research and development activities, such as up-front nonrefundable payments to contract research organizations, if the contracted party has not yet performed activities related to the up-front payment. Amounts deferred are to be recognized by the contracting company as expense when the research and development activities are performed. The application of EITF 07-3 is effective for interim or annual reporting periods in fiscal years beginning after December 15, 2007. Earlier application of EITF 07-3 is not permitted. Companies are required to report the effects of applying EITF 07-3 prospectively for new contracts entered into after the effective date of EITF 07-3. We do not expect the application of EITF 07-3 to have a material affect on our consolidated results of operations and financial condition.

Results of Operations

Our operations consist primarily of the research and development of our product candidates and technologies described above in Part I, Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations Product Development Overview. Our research and development expense includes, but is not limited to, expense related to personnel, facilities and equipment, pre-clinical research, clinical trials, manufacturing of materials for use in clinical trials, conducting data analysis and conducting regulatory documentation submissions to the FDA. Our research and development expense can be divided between programs in the pre-clinical stage and programs in the clinical stage, and general research and development expense attributable to all programs. We manage our business by tracking research and development expense in these categories in lieu of tracking research and development expense on a project-by-project basis. Tables setting forth the amount of research and development expense we have incurred in each of these categories are presented below under Comparison of Three Months Ended June 30, 2007 and June 30, 2006 and Comparison of Six Months Ended June 30, 2007 and June 30, 2006

To commercialize our product candidates, we must obtain certain regulatory approvals. Satisfaction of regulatory requirements typically takes many years and involves compliance with requirements covering pre-clinical research, clinical trials, manufacturing, quality control, labeling and promotion of drugs for human use. To obtain regulatory approvals, we must, among other requirements, complete clinical trials and other work demonstrating our product candidates are safe and effective for a particular cancer type or other disease. The FDA and other similar agencies throughout the world have substantial discretion over the work we must perform to obtain regulatory approval.

The likelihood that a product candidate will be commercially successful may be affected by a variety of factors, including, among others, the quality of the product candidate, the validity of the target and disease indication, early clinical data, competition, manufacturing capability and commercial viability. Because of the discretion of the FDA and similar agencies throughout the world, as well as the foregoing factors, we cannot predict with reasonable accuracy (1) the future expense we will incur developing these product candidates, (2) when we will complete our work in developing these product candidates or (3) when, if ever, we will earn significant revenue from approved products that might result from these product development programs.

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For a discussion of the risks and uncertainties associated with developing our products, as well as the risks and uncertainties associated with potential commercialization of our product candidates, see Part II, Item 1A. Risk Factors, and particularly the risk factors entitled:

If we are unable to commercialize ADVEXIN® therapy in various markets for multiple indications, particularly for the treatment of recurrent head and neck cancer, our business will be harmed ;

If we fail to comply with FDA or foreign regulatory authority requirements or encounter delays or difficulties in clinical trials for our product candidates, we may not obtain regulatory approval of some or all of our product candidates on a timely basis, if at all ;

Even if our products are approved by regulatory authorities, if we fail to comply with ongoing regulatory requirements, or if we experience unanticipated problems with our products, these products could be subject to restrictions or withdrawal from the market ;

Failure to comply with foreign regulatory requirements governing human clinical trials and marketing approval for drugs could prevent us from selling our products in foreign markets, which may adversely affect our operating results and financial conditions ;

If we continue to incur operating losses for a period longer than we anticipate and fail to obtain the capital necessary to fund our operations, we will be unable to advance our development program and complete our clinical trials ;

If we cannot maintain our existing corporate and academic arrangements and enter into new arrangements, we may be unable to develop products effectively, or at all ;

If we are not able to create effective collaborative marketing relationships, we may be unable to market our products successfully or in a cost-effective manner ; and

Even if we receive regulatory approval to market our ADVEXIN therapy, INGN 241, INGN 225 or other product candidates, we may not be able to commercialize them profitably.

We expect our operating expenses discussed below will generally increase in the future as we continue to expand our research and development programs and work to commercialize our product candidates. If we are successful in receiving approval from regulatory agencies to sell one or more of our product candidates, we expect to incur expenses in the future that we have not incurred in the past, such as product manufacturing costs and sales and marketing expenses. As we obtain more financing to support these activities, we expect our interest expense and other expenses associated with obtaining debt and equity capital to increase in the future. If we are able to sell one or more of our product candidates, we expect to receive revenue in the future that we have not received in the past.

Comparison of Three Months Ended June 30, 2007 and June 30, 2006

The following comparisons are for the three months ended June 30, 2007 and June 30, 2006. References to the 2007 period refer to the three months ended June 30, 2007 and references to the 2006 period refer to the three months ended June 30, 2006. All dollar amounts are in thousands unless noted otherwise.

Contract Services, Grant and Other Revenue

	Three Months Ended June 30,	
	2006	2007
Contract services, grant and other revenue	\$ 98	\$ 82
Percent increase (decrease) from previous period	N/A	(16%)

The change in contract services, grant and other revenue for the 2007 period compared to the 2006 period was a result of :

Increased contract services revenue from clinical trials management work we performed for third parties, offset by;

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Decreased contract manufacturing process development and product production services revenue as a result of the completion of certain such work previously in process that was not replaced with additional such work.

Research and Development Expense

	Three Months Ended June 30,	
	2006	2007
Pre-clinical stage programs expense	\$ 339	\$ 310
Clinical stage programs expense	3,649	3,685
General research and development expense	908	768
Total research and development expense	\$ 4,896	\$ 4,763
Percent increase (decrease) in total from previous period	N/A	(3)%

Research and development expense included share-based compensation expense of \$314,000 for the 2007 period and \$253,000 for the 2006 period.

The change in research and development expense in the 2007 period compared to the 2006 period was a result of: Decreased costs of manufacturing supplies of clinical materials as our manufacturing activities in earlier periods provided us with adequate quantities of clinical materials to conduct our clinical trials for the foreseeable future such that we were able to reduce such manufacturing activities in the 2007 period; and

Decreased legal expenses associated with patents and trademarks due to the completion of certain intellectual property legal activities. We have ongoing programs involving the filing of additional patents and trademarks and defending the patents and trademarks we have in place such that our expenses related to that work could increase materially in the future;

which were offset by:

Increased costs related to our preparation of regulatory filings with the FDA and EMEA for ADVEXIN therapy.

General and Administrative Expense

	Three Months Ended June 30,	
	2006	2007
General and administrative expense	\$3,273	\$3,533
Percent increase (decrease) from previous period	N/A	8%

General and administrative expense included share-based compensation expense of \$1.2 million for the 2007 period and \$1.3 million for the 2006 period. The change in general and administrative expense in the 2007 period compared to the 2006 period was a result of:

Expanded activities necessary to support the preparation of our regulatory filings with the FDA and the EMEA for ADVEXIN therapy, and

Increased professional fees related to the establishment of new subsidiaries.

Share-Based Compensation Expense

	Three Months Ended June 30,	
	2006	2007
Share-based compensation expense	\$1,560	\$1,504
Percent increase (decrease) from previous period	N/A	(4)%

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The dollar amount of share-based compensation expense was generally comparable between the 2007 period and the 2006 period as there were no material differences in the level or nature of our share-based compensation activities between those periods.

Interest Income

	Three Months Ended June 30,	
	2006	2007
Interest income	\$ 267	\$373
Percent increase (decrease) from previous period	N/A	40%

The change in interest income in the 2007 period compared to the 2006 period was a result of:

A higher overall average balance of cash, cash equivalents and short-term investments in the 2007 period compared to the 2006 period as a result of the investment of proceeds from our sales of our common stock in November 2006 and December 2006 as further discussed in the Financial Overview section above, and

Generally higher interest rates during the 2007 period compared to the 2006 period.

Interest Expense

	Three Months Ended June 30,	
	2006	2007
Interest expense	\$ 175	\$166
Percent increase (decrease) from previous period	N/A	(5%)

The dollar amount of interest expense was generally comparable between the 2007 period and the 2006 period as the decrease in interest expense resulting from normal payments reducing the outstanding principal balances on our borrowings was offset by an increase in interest expense resulting from additional borrowings at higher interest rates subsequent to the 2006 period to finance equipment purchases.

Other Income

	Three Months Ended June 30,	
	2006	2007
Other income	\$ 288	\$244
Percent increase (decrease) from previous period	N/A	(15%)

The dollar amount of other income was generally comparable between the 2007 and 2006 periods, which is consistent with the nature of our activities that generate other income. This income is earned primarily from our sublease of space to M. D. Anderson Cancer Center and other miscellaneous activities.

Comparison of Six Months Ended June 30, 2007 and June 30, 2006

The following comparisons are for the six months ended June 30, 2007 and June 30, 2006. References to the 2007 period refer to the six months ended June 30, 2007 and references to the 2006 period refer to the six months ended June 30, 2006. All dollar amounts are in thousands unless noted otherwise.

Contract Services, Grant and Other Revenue

	Six Months Ended June 30,	
	2006	2007
Contract services, grant and other revenue	\$ 323	\$404
Percent increase (decrease) from previous period	N/A	25%

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The change in contract services, grant and other revenue for the 2007 period compared to the 2006 period was a result of:

Increased contract services revenue for research work we performed for third parties; and

Increased revenue earned under research grants from U. S. government agencies;

which were offset by:

Decreased contract manufacturing process development and product production services revenue as a result of the completion of certain such work previously in process that was not replaced with additional such work.

Research and Development Expense

	Six Months Ended June 30,	
	2006	2007
Pre-clinical stage programs expense	\$ 821	\$ 663
Clinical stage programs expense	7,373	5,676
General research and development expense	1,748	1,599
Total research and development expense	\$ 9,942	\$ 7,938

Percent increase (decrease) in total from previous period N/A (20)%

Research and development expense included share-based compensation expense of \$619,000 for the 2007 period and \$470,000 for the 2006 period.

The change in research and development expense in the 2007 period compared to the 2006 period was a result of:

Decreased expense related to the amortization of grant rights acquired in the purchase of Magnum as a result of the completion of our work and related funding under that grant in the 2006 period;

Decreased costs of manufacturing supplies of clinical materials as our manufacturing activities in earlier periods provided us with adequate quantities of clinical materials to conduct our clinical trials for the foreseeable future such that we were able to reduce such manufacturing activities in the 2007 period;

Reaching an agreement with a third party that resulted in us not having to pay certain of their invoices that were previously included in our accounts payable;

The expiration of the requirement to purchase additional shares of VirRx, discussed in Note 6 to our Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2006, filed with the SEC on March 8, 2007, under Business and Collaborative Arrangements VirRx, Inc; and

Decreased legal expenses associated with patents and trademarks due to the completion of certain intellectual property legal activities. We have ongoing programs involving the filing of additional patents and trademarks and defending the patents and trademarks we have in place such that our expenses related to that work could increase materially in the future.

which were partially offset by:

Increased costs related to our preparation of regulatory filings with the FDA and EMEA for ADVEXIN therapy.

*General and Administrative Expense***Six Months**

	Ended June 30,	
	2006	2007
General and administrative expense	\$7,069	\$6,800
Percent increase (decrease) from previous period	N/A	(4%)

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General and administrative expense included share-based compensation expense of \$2.1 million for the 2007 period and \$3.3 million for the 2006 period.

The change in general and administrative expense in the 2007 period compared to the 2006 period was primarily due to:

Decreased share-based compensation expense, which is discussed further below under *Share-Based Compensation Expense*; and

Decreased financial advisory fees associated with raising capital in 2006 for which we did not incur similar expenses in 2007;

which were partially offset by:

Increased legal fees incurred with respect to certain matters arising during the normal course of our business.

Share-Based Compensation Expense

	Six Months Ended June 30,	
	2006	2007
Share-based compensation expense	\$3,798	\$2,759
Percent increase (decrease) from previous period	N/A	(27)%

The change in share-based compensation expense in the 2007 period compared to the 2006 period was a result of:

A grant in the 2006 period to our CEO of a fully vested option to purchase 250,000 shares of common stock for which there was no similar grant in the 2007 period, and;

Variances in the risk-free interest rate, the volatility of our stock price and other factors consider in our determination of share-based compensation expense using the Black-Scholes option pricing model.

Interest Income

	Six Months Ended June 30,	
	2006	2007
Interest income	\$ 566	\$815
Percent increase (decrease) from previous period	N/A	44%

The change in interest income in the 2007 period compared to the 2006 period was a result of:

A higher overall average balance of cash, cash equivalents and short-term investments in the 2007 period compared to the 2006 period as a result of the investment of proceeds from our sales of our common stock in November 2006 and December 2006 as further discussed in the *Financial Overview* section above, and

Generally higher interest rates during the 2007 period compared to the 2006 period.

Interest Expense

	Six Months Ended June 30,	
	2006	2007
Interest expense	\$ 331	\$345
Percent increase (decrease) from previous period	N/A	4%

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Interest expense increased for the 2007 period compared to the 2006 period due to:

Additional borrowings subsequent to the 2006 period to finance equipment acquisitions and higher interest rates on those additional borrowings;

A higher interest rate on our mortgage note payable in the 2007 period compared to the 2006 period as a result of an adjustment to that interest rate subsequent to the 2006 period in connection with the exercise of our option to extend the term of that note payable;

which were partially offset by:

Reductions in the total principal balance on which we are paying interest as a result of normal debt service payments.

Other Income

	Six Months Ended June 30,	
	2006	2007
Other income	\$ 543	\$498
Percent increase (decrease) from previous period	N/A	(8%)

The dollar amount of other income was generally comparable between the 2007 and 2006 periods, which is consistent with the nature of our activities that generate other income. This income is earned primarily from our sublease of space to M. D. Anderson Cancer Center and other miscellaneous activities.

Liquidity and Capital Resources

In the following discussion of liquidity and capital resources, references to the 2007 period refer to the six months ended June 30, 2007 and references to the 2006 period refer to the six months ended June 30, 2006. All dollar amounts are in thousands unless noted otherwise.

We have incurred annual operating losses since our inception. At June 30, 2007, we had an accumulated deficit of \$185.6 million.

From inception through June 30, 2007, we have financed our operations primarily from the following sources, the amounts of which are presented net of related expenses paid in cash:

\$69.1 million of equity sales in December 2003, December 2004, November 2006 and December 2006 through registered direct offerings under a shelf registration filed with the SEC;

\$49.7 million of collaborative research and development payments from Aventis from 1994 to 2000;

\$39.4 million of private equity sales to Aventis from 1994 to 1999;

\$32.2 million from our initial public offering in October 2000;

\$29.5 million of private equity sales to various other parties, most recently in June 2003;

\$24.1 million from contract services, grants, interest and other income;

\$19.6 million of equity sales to Colgate-Palmolive under a shelf registration filed with the SEC and pursuant to an alliance agreement entered into in November 2005;

\$9.9 million in mortgage financing from banks for our facilities;

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\$7.5 million of sales of ADVEXIN therapy product to Aventis for use in later-stage clinical trials from 1997 to 2000; and

\$6.3 million in leases and notes payable from commercial lessors and lenders to acquire equipment pledged as collateral for those leases and notes.

At June 30, 2007, we had cash, cash equivalents and short-term investments of \$27.9 million, compared to \$41.3 million at December 31, 2006. Our cash equivalents and short-term investments are generally comparable financial instruments, with short-term investments having original maturity dates in excess of three months.

Cash and cash equivalents, exclusive of short-term investments, were \$8.5 million at June 30, 2007 and \$25.6 million at December 31, 2006. Considering cash and cash equivalents alone, exclusive of short-term investments, the change in those amounts consisted of the following amounts:

	2007
Used in operating activities	\$11,545
Used by investing activities	\$ 3,659
Used by financing activities	\$ 1,889

We expect to continue focusing our activities primarily on conducting Phase 3 and other clinical trials, conducting data analysis related to those trials, preparing regulatory documentation submissions to the FDA, producing ADVEXIN therapy and other clinical materials for use in our clinical trials and conducting pre-marketing activities for ADVEXIN therapy. We expect to continue our research and development of various other targeted molecular therapy technologies. If ADVEXIN therapy or any of our other product candidates are approved for commercial sale by the FDA, we expect to conduct activities supporting the marketing, sales, production and distribution of those products, either ourselves or in collaboration with other parties.

The majority of our expenditures for the foreseeable future will most likely be for our activities as they relate to ADVEXIN therapy. These activities may increase the rate at which we use cash in the future as compared to the cash we used for operating activities during the 2006 period. We believe our existing working capital can fund our operations for the next 18 to 21 months. We may have to make adjustments to the scope of our operations to achieve that objective. Unforeseen events could shorten that time period.

Our existing resources may not be sufficient to support the commercial introduction of any of our product candidates. In order to fund our operating losses, we intend to raise additional funds through public or private equity offerings, debt financings or additional corporate collaboration and licensing arrangements. We do not know whether such additional financing will be available when needed or on terms favorable to us or our stockholders.

Net Cash Used in Operating Activities

	Six Months Ended June 30,	
	2006	2007
Net cash used in operating activities	\$11,516	\$11,545

The net cash we used in our operating activities relates to the following items:

Net loss The net loss reported in our statement of operations includes certain expenses that do not involve the use of cash. The following table illustrates the portion of our net loss for which we use cash:

	Six Months Ended June 30,	
	2006	2007
Net loss	\$ (15,910)	\$ (13,366)
Less expenses not requiring the use of cash:		
Non-controlling interest in income of consolidated subsidiary		
Depreciation	719	545

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	Six Months Ended June 30,	
	2006	2007
Share-based compensation	3,769	2,759
Amortization of grant rights acquired	133	
Portion of net loss for which we use cash	\$ (11,289)	\$ (10,062)
Percent decrease from previous period	N/A	(11)%

See Comparison of Six Months Ended June 30, 2007 and June 30, 2006 above for a discussion of the changes in the components of our net loss.

Accounts payable and accrued liabilities Changes in these accounts arise primarily from variations in the timing of payments to vendors and employees that arise in the ordinary course of business. This timing is a function of:

Variations in our general business activities;

The nature of vendors to whom we have obligations;

The nature of payment terms we receive from vendors;

The timing of when we elect to make payments to vendors based on our available cash balances and cash flow needs; and

The timing of our regularly scheduled paydays for our employees relative to the end of our accounting periods.

The changes in our accounts payable and accrued liabilities for the 2007 and 2006 periods related to one or more of the above items, with no single component of those aggregate changes being material to our business as a whole. In addition to the above items, we experienced a larger decrease in these amounts in the 2007 period compared to the 2006 period due to reaching an agreement with a third party that we will not have to pay certain of their invoices that were previously included in our accounts payable.

Deferred revenue and other These accounts relate to:

Cash payments for contract manufacturing, process development and product production services work received in advance of completing the work to which the payments relate, which increase our deferred revenue. This deferred revenue decreases, with no effect on cash, as we complete the work and recognize the related revenue;

Rental income we receive from the sublease of laboratory space to third parties under leases that have variable monthly rent amounts over the term of the lease. We recognize this income on a straight-line basis over the term of the lease. Cash payments received in excess of rental income recognized are recorded as deferred revenue. This deferred revenue decreases, with no effect on cash, when the cash payments we receive are less than the rental income recognized on a straight-line basis; and

The long-term portion of fees payable to a placement agent that assisted with our sale of common stock in November 2006 and December 2006.

The change in deferred revenue and other in the 2007 period compared to the 2006 period was due to:

The monthly rent payments we received under a sublease of a portion of our facilities to M. D. Anderson Cancer Center being less than the monthly revenue we recognized on a straight-line basis for all of the 2007 period whereas, that situation existed for only a portion of the 2006 period due to a scheduled decrease in those rent payments becoming effective during the 2006 period; and

A decrease in other liabilities related to the long-term portion of fees payable to a placement agent that assisted with our sale of common stock in November 2006 and December 2006 as a result of us making scheduled payments of those fees.

Other assets Other assets increased during the 2007 period and 2006 periods. Changes in other assets vary in direction and amount based on the timing of and dollars involved in transactions related to items such as prepaid expenses, grant funding

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receivable and deposits. The aggregate changes in prepaid assets during the 2007 and 2006 periods resulted from such activities that arose during the normal course of our business, with no component of those aggregate changes being material to our business as a whole.

Depreciation is an expense in our net loss that does not use cash. This expense decreased in the 2007 period compared to the 2006 period due to the absence of significant property and equipment acquisitions during the 2007 and 2006 periods and our use of declining balance depreciation methods that result in decreasing depreciation charges over the life of an asset.

Share-based compensation is an expense in our net loss that does not use cash. See *Share-Based Compensation Expense* above for a discussion of the changes in this expense between periods.

Amortization of grant rights acquired is an expense in our net loss that does not use cash. These grant rights resulted from our acquisition of Magnum in October 2004. This expense decreased in the 2007 period compared to the 2006 period due to the completion in 2006 of activities under the grant from the NIH that we acquired in connection with our acquisition of Magnum.

Net Cash Used In Investing Activities

	Six Months Ended June 30,	
	2006	2007
Net cash used in investing activities	\$7,493	\$3,659

The change in the 2007 period compared to the 2006 period was primarily due to:

A lower level of net activity in purchases of short-term investments in the 2007 period compared to the 2006 period arising from (1) normal variations in the amount and timing of purchases and sales of short-term investments based on our operating needs for cash and cash equivalents and (2) the availability of cash from sales of our common stock;

with those activities offset by:

A lower amount of equipment purchases to support our business being necessary in the 2007 period compared to the 2006 period since our facilities were outfitted in previous periods with the equipment necessary to conduct our current level of operations.

We have no obligations at this time to purchase significant amounts of additional property or equipment, but our needs may change. It may be necessary for us to purchase larger amounts of property and equipment to support our clinical programs and other research, development and manufacturing activities. We may need to obtain debt or lease financing to facilitate such purchases. If that financing is not available, we may need to use our existing resources to fund those purchases, which could result in a reduction in the cash and cash equivalents available to fund operating activities.

Net Cash Used by Financing Activities

	Six Months Ended June 30,	
	2006	2007
Cash used in financing activities	\$59	\$1,889

The change in the 2007 period compared to the 2006 period was primarily due to:

The payment during the 2007 period of approximately \$1.6 million of fees payable to a placement agent that we accrued as of December 31, 2006, which were for the placement agent's work supporting the sale of our common stock in November 2006 and December 2006;

An increase in principal payments under notes payable in the 2007 period compared to the 2006 period due to additional borrowings during and subsequent to the 2006 period to finance equipment purchased during that period; and

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A decrease in proceeds from borrowings to finance equipment purchased in the 2007 period compared to the 2006 period;

which were offset by

an increase in proceeds from exercise of options for common stock in the 2007 period compared to the 2006 period, which is activity that can vary based upon the discretionary actions of the individuals holding such options.

Debt Service, Lease and Other Contractual Obligations

We have fixed debt service obligations under notes payable for which the liability is reflected on our balance sheet. We used the proceeds from these notes payable to finance facilities and equipment. Aggregate payments due under these obligations are as follows (in thousands):

Total debt service payments for July 1, 2007 through December 31, 2007	\$ 681
Total debt service payments due during the year ending December 31:	
2008	1,064
2009	858
2010	753
2011	735
Thereafter	9,633
Total debt service payments	13,724
Less portion representing interest	(5,821)
Total principal balance at June 30, 2007	\$ 7,903
Principal balance presented on the June 30, 2007 balance sheet as liabilities in these categories:	
Current portion of notes payable	\$ 669
Notes payable, net of current portion	7,234
Total principal balance at June 30, 2007	\$ 7,903

We have fixed, noncancellable rent obligations under operating leases consisting primarily of the following:

A ground lease for the land on which we built our primary research and manufacturing facilities with annual rent payments of \$156,000 through September 2026. These payments are subject to adjustment in the future for inflation;

A lease for a building housing our second production facility with annual rent payments of \$97,000 through January 2009, and;

A lease for our corporate office space with annual rent payments of \$230,000 through July 2009.

The latter two leases are subject to adjustment annually for changes in operating expenses.

For operating leases, no liability related to them is reflected on our balance sheet in accordance with generally accepted accounting principles. Payments under these operating leases will continue until the expiration of the initial term of each lease. Future minimum annual rental payments due under these leases and all other operating leases are as follows (in thousands):

July 1, 2007 through December 31, 2007	\$ 262
Year ending December 31,	
2008	504
2009	311

2010	161
2011	156
Thereafter	2,303
Total minimum lease payments under operating leases	\$ 3,697

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In the normal course of business, we may enter into various long-term agreements with vendors to provide services to us. Some of these agreements may require up-front payment prior to services being rendered. Some may require periodic monthly payments and some may provide for the vendor to bill us for their services as they are rendered. In substantially all cases, we may cancel these agreements at any time with minimal or no penalty and pay the vendor only for services actually rendered. Regardless of the timing of the payments under these agreements, we record the expense incurred in the periods in which the services are rendered.

Pursuant to a consulting agreement, we pay consulting fees of approximately \$175,000 per annum to EJ Financial Enterprises, Inc. (EJ Financial), a company owned by the Chairman of our Board of Directors. EJ Financial provides us guidance on strategic product development, business development and marketing activities. We are obligated to continue paying this fee until we terminate the services of that company at our option.

We have a consulting agreement with Jack A. Roth, M.D., Chairman of the Department of Thoracic and Cardiovascular Surgery and Director of the W. M. Keck Center for Cancer Gene Therapy at The University of Texas M. D. Anderson Cancer Center where he holds the Bud Johnson Clinical Distinguished Chair. Dr. Roth is the primary inventor of the technology upon which our ADVEXIN therapy is based and numerous other technologies we utilize. We licensed Dr. Roth's inventions from M. D. Anderson Cancer Center. Dr. Roth is our Chief Medical Advisor and chairman of our scientific advisory board. His duties involve the regular interaction and consultation with our scientists and others on our behalf. As compensation for his services and responsibilities, this consulting agreement provides for payments to Dr. Roth of \$205,000 per annum, with that amount subject to adjustment for inflation in the future. These payments continue through the end of the consulting agreement term on September 30, 2009. We may terminate this agreement at our option upon one year's advance notice. If we had terminated this agreement as of March 31, 2007, we would have been obligated to make final payments totaling \$205,000. Dr. Roth is one of our stockholders.

A placement agent assisted with our sale of common stock in November 2006 and December 2006. As consideration for its services, we are obligated to make future payments of fees to the placement agent totaling \$601,000. These fees are payable in monthly installments of approximately \$25,000 through December 2008.

We have a cooperative research and development agreement, or CRADA, with the NCI under which we will pay the NCI approximately \$19,000 per quarter through March 2009 to support their technical, statistical and administrative activities under this CRADA.

We sublease a portion of our facilities to M. D. Anderson Cancer Center, a component institution of The University of Texas System, which is one of our shareholders. They are obligated to pay us rent and facilities operating expense reimbursements of approximately \$23,000 per month during the non-cancelable term of this lease, which expires in 2009.

Non-Audit Services of Independent Registered Public Accounting Firm

Pursuant to Section 10A(i)(2) of the Exchange Act, as added by Section 202 of the Sarbanes-Oxley Act of 2002, we are responsible for disclosing the non-audit services approved by the Audit Committee to be performed by Ernst & Young LLP, our independent auditors. Non-audit services are defined as services other than those provided in connection with an audit or a review of our financial statements. The services approved by the Audit Committee are each considered by the Audit Committee to be services closely related to the financial audit process. Each of the services was pre-approved by the Audit Committee.

The Audit Committee has pre-approved additional engagements of Ernst & Young LLP for the non-audit services of preparation of state and federal tax returns.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

We are exposed to market risk related to changes in interest rates, foreign currency exchange rates and equity prices. Our risks, risk management strategies and sensitivity analyses estimating the effects of changes in fair values for each of these exposures at June 30, 2007 are outlined below. Actual results may differ materially from our sensitivity analyses based on changes in the timing and amount of interest rate, foreign currency exchange rate and equity price movements and our actual exposures.

Our market risk profile has not changed significantly from that described in our Annual Report on Form 10-K for the year ended December 31, 2006, filed with the SEC on March 8, 2007.

Interest Rate Risk

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Our exposure to market risk for changes in interest rates relates primarily to our fixed rate long-term debt and short-term investments in investment grade securities, which consist primarily of federal government obligations. Investments are classified as held-to-maturity and are carried at amortized cost. We do not hedge interest rate exposure or invest in derivative securities.

We have performed sensitivity analyses as of June 30, 2007 and December 31, 2006 using a modeling technique that measures the change in our interest income arising from a hypothetical 100-basis point decrease in the levels of interest rates across the entire yield curve, with all other variables held constant. The analyses cover our fixed rate long-term debt and short-term investments. The analyses use actual maturities for our fixed rate long-term debt and short-term investments. The discount rates we used were based on the market interest rates in effect at June 30, 2007 and December 31, 2006. The sensitivity analyses indicated a hypothetical 100-basis point decrease in the interest rates of our cash, cash equivalents and short-term investments as of June 30, 2007 would decrease our interest income by approximately \$279,000 per year and approximately \$69,750 per quarter, compared to a decrease in our interest income of approximately \$413,500 per year and approximately \$103,375 per quarter as of December 31, 2006.

At June 30, 2007, the fair value of our fixed-rate debt approximated its carrying value based upon discounted future cash flows using current market prices.

Equity Price Risk and Foreign Currency Exchange Rate Risk

From time to time, we may invest in marketable securities of public companies, typically in the form of equity instruments, for business and strategic purposes. We own British Pound-denominated shares in Silence Therapeutics (formerly SR Pharma), a publicly traded company listed on the Alternative Investment Market of the LSE. These marketable securities are classified as available-for-sale. Unrealized gains and losses in these marketable securities and the related foreign currency gains and losses are reported as a separate component of accumulated other comprehensive income (loss) in stockholders' equity until realized. We are exposed to market risk for changes in equity prices and foreign currency exchange rates as a result of our investments in marketable securities.

These marketable securities are subject to significant fluctuation in fair value due to the volatility of the industry in which Silence Therapeutics participates and changes in the relative foreign currency values. We do not hedge our equity price risk or foreign currency translation exposure or invest in derivative securities. We have performed sensitivity analyses as of June 30, 2007 and December 31, 2006 using a modeling technique that measures the change in the fair values arising from a hypothetical 10% decline in the stock price of our marketable securities, a hypothetical 10% decline in foreign currency exchange rates relative to the U.S. dollar and a simultaneous hypothetical 10% decline in the stock price of our marketable securities and in foreign currency exchange rates relative to the U.S. dollar, with all other variables held constant. The analyses cover all of our public company marketable securities. The foreign currency exchange rates we used were based on market rates in effect at June 30, 2007 and December 31, 2006. The sensitivity analyses indicated that:

A hypothetical 10% decrease in the stock price of our marketable securities as of June 30, 2007 would decrease the value of those marketable securities by approximately \$2.0 million, compared to a decrease in the fair value of those marketable securities of approximately \$696,000 as of December 31, 2006;

A hypothetical 10% decrease in the value of the British Pound as of June 30, 2007 would decrease the fair value of our marketable securities by approximately \$2.0 million, compared to a decrease in the fair value of our marketable securities of approximately \$696,000 as of December 31, 2006; and

A hypothetical 10% decrease in the stock price of our marketable securities and a hypothetical 10% decrease in the value of the British Pound, in each case as of June 30, 2007, would decrease the fair value of our marketable securities by approximately \$3.7 million, compared to a decrease in the fair value of our marketable securities of approximately \$1.3 million as of December 31, 2006.

Our purchase price for these Silence Therapeutics marketable securities was approximately \$3.0 million. The quoted value of these marketable securities was approximately \$19.7 million at June 30, 2007 and \$6.9 million at December 31, 2006.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures. Our management evaluated, with the participation of our Chief Executive Officer and our Chief Financial Officer, the effectiveness of our disclosure controls and procedures as of the end of the period covered by this Quarterly Report on Form 10-Q. Based on this evaluation, our Chief Executive Officer and our Chief Financial Officer have concluded that our disclosure controls and procedures are effective to ensure that information we are required to disclose in reports

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that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in SEC rules and forms.

Changes in Internal Control over Financial Reporting. There was no change in our internal control over financial reporting that occurred during the period covered by this Quarterly Report on Form 10-Q that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

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**PART II
OTHER INFORMATION**

Item 1. Legal Proceedings

We are involved from time to time in legal proceedings relating to claims arising out of our operation in the ordinary course of business, including actions relating to intellectual property rights.

We do not believe that the outcome of any present, or all litigation in the aggregate, will have a material effect on our business. You can read the discussion of our opposition of the patents under Part II, Item 1A. Risk Factors.

Item 1A. Risk Factors

If we are unable to commercialize ADVEXIN® therapy in various markets for multiple indications, particularly for the treatment of recurrent head and neck cancer, our business will be harmed.

Our ability to achieve and sustain operating profitability depends on our ability to successfully commercialize ADVEXIN therapy in various markets for multiple indications, which depends in large part on our ability to commence, execute and complete clinical programs and obtain regulatory approvals for ADVEXIN therapy and other drug candidates. In particular, our ability to achieve and sustain profitability will depend in large part on our ability to commercialize in the United States ADVEXIN therapy for the treatment of recurrent head and neck cancer. We cannot assure you we will receive approval for ADVEXIN therapy for the treatment of recurrent head and neck cancer or other types of cancer or indications in the United States or in other countries or if approved that we will achieve significant level of sales. If we are unable to do so, our business will be harmed.

If we fail to comply with FDA or foreign regulatory authority requirements or encounter delays or difficulties in clinical trials for our product candidates we may not obtain regulatory approval of some or all of our product candidates on a timely basis, if at all.

In order to commercialize our product candidates, we must obtain certain regulatory approvals. Satisfaction of regulatory requirements typically takes many years and involves compliance with requirements covering research and development, testing, manufacturing, quality control, labeling and promotion of drugs for human use. To obtain regulatory approvals, we must, among other requirements, complete clinical trials demonstrating our product candidates are safe and effective for a particular cancer type or other disease. Regulatory approval of a new drug is never guaranteed. The FDA and foreign regulatory authorities have substantial discretion in the approval process. Despite the time and experience exerted, failure can occur at any stage, and we could encounter problems causing us to abandon clinical trials.

We have completed or are conducting clinical trials of our lead product candidate, ADVEXIN therapy, for the treatment of various cancers. Current or future clinical trials may demonstrate ADVEXIN therapy is neither safe nor effective.

We have completed or are conducting clinical trials of INGN 241, a product candidate based on the mda-7 tumor suppressor. We will need to continue conducting significant research and animal testing, referred to as pre-clinical testing, to support performing clinical trials for our other product candidates. It will take us many years to complete pre-clinical testing and clinical trials, and failure could occur at any stage of testing. Current or future clinical trials may demonstrate INGN 241 or our other product candidates are neither safe nor effective.

Any delays or difficulties we encounter in our pre-clinical research and clinical trials may delay or preclude regulatory approval. Our product development costs will increase if we experience delays in testing or regulatory approvals or if we need to perform more or larger clinical trials than planned or make any unplanned changes to our product candidates. Any delay or preclusion could also delay or preclude the commercialization of ADVEXIN therapy or any other product candidates. In addition, we, the FDA or foreign regulatory authorities might delay or halt any of our clinical trials of a product candidate at any time for various reasons, including:

the product candidate is less effective and/or more toxic than current therapies;

the presence of unforeseen adverse side effects of a product candidate, including its delivery system;

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- a longer than expected time required to determine whether or not a product candidate is effective;
- the death of patients during a clinical trial, even if the product candidate did not cause those deaths;
- the failure to enroll a sufficient number of patients in our clinical trials;
- the inability to produce sufficient quantities of a product candidate to complete the trials; or
- the inability to commit the necessary resources to fund the clinical trials.

We cannot be certain the results we observed in our pre-clinical testing will be confirmed in clinical trials or the results of any of our clinical trials will support FDA or other regulatory approval. Pre-clinical and clinical data can be interpreted in many different ways, and FDA or foreign regulatory officials could interpret differently data we consider promising, which could halt or delay our clinical trials or prevent regulatory approval.

Despite the FDA's designation of ADVEXIN therapy as a Fast Track product, we may encounter delays in the regulatory approval process due to additional information requirements from the FDA, unintentional omissions in our BLA for ADVEXIN therapy, or other delays in the FDA's review process. Similarly, although we have an agreement with the EMEA to file for marketing approval for ADVEXIN therapy in countries under its jurisdiction under the EMEA's Exceptional Circumstances provisions, we may encounter delays in the regulatory approval process due to additional information requirements from the EMEA, unintentional omissions in our Marketing Authorization Application filed with the EMEA, or other delays in the EMEA's review process. We may encounter delays or rejections in the regulatory approval process because of additional government regulation from future legislation or administrative action or changes in FDA or EMEA policy during the period of product development, clinical trials and FDA and EMEA regulatory review.

Despite the initiation of the BLA process for ADVEXIN therapy under the FDA's accelerated approval regulations, the FDA could determine that accelerated approval is not warranted and that a traditional BLA filing must be made. Such a determination could delay regulatory approval. Additionally, accelerated approval of an application could be subject to Phase 4 or post-approval studies to validate the surrogate endpoint or confirm the effect on the clinical endpoint. Failure to validate a surrogate endpoint or confirm a clinical benefit during post-approval studies could cause the product to be withdrawn from the market by the FDA on an expedited basis.

Even if our products are approved by regulatory authorities, if we fail to comply with ongoing regulatory requirements, or if we experience unanticipated problems with our products, these products could be subject to restrictions or withdrawal from the market.

Any product for which we obtain marketing approval, along with the manufacturing processes, post-approval clinical data and promotional activities for such product, will be subject to continual review and periodic inspections by the FDA and other regulatory bodies. Even if regulatory approval of a product is granted, the approval may be subject to limitations on the indicated uses for which the product may be marketed or certain requirements for costly post-marketing testing and surveillance to monitor the safety or efficacy of the product. Later discovery of previously unknown problems with our products, including unanticipated adverse events of unanticipated severity or frequency, manufacturer or manufacturing processes or failure to comply with regulatory requirements, may result in restrictions on such products or manufacturing processes, withdrawal of the products from the market, voluntary or mandatory recall, fines, suspension of regulatory approvals, product seizures or detention, injunctions or the imposition of civil or criminal penalties.

Failure to comply with foreign regulatory requirements governing human clinical trials and marketing approval for drugs could prevent us from selling our products in foreign markets, which may adversely affect our operating results and financial conditions.

For marketing drugs and biologics outside the United States, the requirements governing the conduct of clinical trials, product licensing, pricing and reimbursement vary greatly from country to country and may require additional testing. The time required to obtain approvals outside the United States may differ from that required to obtain FDA approval. We may not obtain foreign regulatory approval on a timely basis, if at all. Approval by the FDA does not

ensure approval by regulatory authorities in other countries, and approval by one foreign regulatory authority does not ensure approval by regulatory authorities in other countries or by

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the FDA. Failure to comply with these regulatory requirements or to obtain required approvals could impair our ability to develop these markets and could have a material adverse effect on our results of operations and financial condition.

We have a history of operating losses, expect to incur significant additional operating losses and may never become profitable.

We have generated operating losses since we began operations in June 1993. As of June 30, 2007, we had an accumulated deficit of approximately \$185.6 million. We expect to incur substantial additional operating expense and losses over the next several years as our research, development, pre-clinical testing and clinical trial activities continue. As we expand our operations and develop systems to support commercialization of our product candidates, these losses, among other things, have had, and are expected to continue to have, an adverse impact on our total assets, stockholders' equity and working capital.

We have no products that have generated any commercial revenue. Presently, we earn minimal revenue from contract services activities, grants, interest income and rent from the lease of a portion of our facilities to M. D. Anderson Cancer Center. We do not expect to generate revenue from the commercial sale of products in the near future, and we may never generate revenue from the commercial sale of products.

If we continue to incur operating losses for a period longer than we anticipate and fail to obtain the capital necessary to fund our operations, we will be unable to advance our development program and complete our clinical trials.

Developing a new drug and conducting clinical trials is expensive. Our product development efforts may not lead to commercial products, either because our product candidates fail to be found safe or effective in clinical trials or because we lack the necessary financial or other resources or relationships to pursue our programs through commercialization. Our capital and future revenue may not be sufficient to support the expense of our operations, the development of commercial infrastructure and the conduct of our clinical trials and pre-clinical research.

We expect we will fund our operations over approximately the next 18 to 21 months with our current working capital, which we accumulated primarily from sale of equity securities, income from contract services and research grants, debt financing of equipment acquisitions, the lease of a portion of our facilities to M. D. Anderson Cancer Center and interest on invested funds. We intend to raise additional capital sooner, however, under various circumstances, including if we experience:

- an acceleration of the number, size or complexity of our clinical trials;
- slower than expected progress in developing ADVEXIN therapy, INGN 241 or other product candidates;
- higher than expected costs to obtain regulatory approvals;
- higher than expected costs to pursue our intellectual property strategy;
- higher than expected costs to further develop and scale up our manufacturing capability;
- higher than expected costs to develop our sales and marketing capability;
- faster than expected rate of progress and cost of our research and development and clinical trial activities;
- a decrease in the amount and timing of milestone payments we receive from collaborators;
- higher than expected costs of preparing an application for FDA or foreign regulatory approval of ADVEXIN therapy;
- higher than expected costs of developing the processes and systems to support FDA or foreign regulatory approval of ADVEXIN therapy;

an increase in our timetable and costs for the development of marketing operations and other activities related to the commercialization of ADVEXIN therapy and our other product candidates;

a change in the degree of success in our Phase 3 clinical trial of ADVEXIN therapy and in the clinical trials of our other products;

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the emergence of competing technologies and other adverse market developments; or

changes in or terminations of our existing collaboration and licensing arrangements.

We do not know whether additional financing will be available when needed or on terms favorable to us or our stockholders. We may need to raise any necessary funds through public or private equity offerings, debt financings or additional corporate collaboration and licensing arrangements. To the extent we raise additional capital by issuing equity securities, our stockholders will experience dilution. If we raise funds through debt financings, we may become subject to restrictive covenants. To the extent we raise additional funds through collaboration and licensing arrangements, we may be required to relinquish some rights to our technologies or product candidates, or grant licenses on terms not favorable to us. If we are not able to raise additional funds, we may have to delay, reduce or eliminate our clinical trials and our development programs.

If we cannot maintain our existing corporate and academic arrangements and enter into new arrangements, we may be unable to develop products effectively, or at all.

Our strategy for the research, development and commercialization of our product candidates may result in our entering into contractual arrangements with corporate collaborators, academic institutions and others. We have entered into sponsored research, license and/or collaborative arrangements with several entities, including M. D. Anderson Cancer Center, the NCI, Chiba University in Japan, VirRx and Columbia University, Moffitt Cancer Center at the University of South Florida, as well as numerous other institutions that conduct clinical trials work or perform pre-clinical research for us. Our success depends upon our collaborative partners performing their responsibilities under these arrangements and complying with the regulations and requirements governing clinical trials. We cannot control the amount and timing of resources our collaborative partners devote to our research and testing programs or product candidates, or their compliance with regulatory requirements which can vary because of factors unrelated to such programs or product candidates. These relationships may in some cases be terminated at the discretion of our collaborative partners with only limited notice to us. We may not be able to maintain our existing arrangements, enter into new arrangements or negotiate current or new arrangements on acceptable terms, if at all. Some of our collaborative partners may also be researching competing technologies independently from us to treat the diseases targeted by our collaborative programs.

If we do not continue to receive grant funding from federal agencies and others we may be unable to continue our research and development programs for certain of our product candidates at current levels or in the manner we have planned for the future.

We rely on grants from third parties, generally federal agencies, to provide the funding necessary to conduct our research and development programs for some of our technologies and product candidates. Funding of these grants is typically subject to government appropriations. These grants often contain provisions that allow for termination at the convenience of the government. Further, these grants are subject to complex federal guidelines and regulations. If federal agencies or regulatory authorities determine that we, or the programs for which we desire to receive or have received grant funding, do not qualify for funding, our scientific or product development programs could be slowed or stopped and we may suffer financial losses and be unable to successfully commercialize our products.

If we are not able to create effective collaborative marketing relationships, we may be unable to market our products successfully or in a cost-effective manner.

To effectively market our products, we will need to develop sales, marketing and distribution capabilities. In order to develop or otherwise obtain these capabilities, we may have to enter into marketing, distribution or other similar arrangements with third parties in order to sell, market and distribute our products successfully. To the extent we enter into any such arrangements with third parties, our product revenue is likely to be lower than if we directly marketed and sold our products, and any revenue we receive will depend upon the efforts of such third parties. We have no experience in marketing or selling pharmaceutical products and we currently have no sales, marketing or distribution capability. We may be unable to develop sufficient sales, marketing and distribution capabilities to commercialize our products successfully.

Serious and unexpected side effects attributable to molecular therapies may result in governmental authorities imposing additional regulatory requirements or a negative public perception of our products.

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ADVEXIN therapy and most of our other product candidates under development could be broadly described as targeted molecular therapies or recombinant DNA therapies. A number of clinical trials are being conducted by other pharmaceutical companies involving related therapies, including compounds similar to, or competitive with, our product candidates. The announcement of adverse results from these clinical trials, such as serious unwanted and unexpected side effects attributable to treatment, or any response by FDA or foreign regulatory authorities to such clinical trials, may impede the timing of our clinical trials, delay or prevent us from obtaining regulatory approval or negatively influence public perception of our product candidates, which could harm our business and results of operations and depress the value of our stock.

The United States Senate has held hearings concerning the adequacy of regulatory oversight of recombinant DNA therapy clinical trials, as well as the adequacy of research subject education and protection in clinical research in general, and to determine whether additional legislation is required to protect volunteers and patients who participate in such clinical trials. The Recombinant DNA Advisory Committee, which acts as an advisory body to the NIH, has expanded its public role in evaluating important public and ethical issues in recombinant DNA therapy clinical trials. Implementation of any additional review and reporting procedures or other additional regulatory measures could increase the costs of or prolong our product development efforts or clinical trials.

We report to the FDA and other regulatory agencies serious adverse events, including those we believe may be reasonably related to the treatments administered in our clinical trials. Such serious adverse events, whether treatment-related or not, could result in negative public perception of our treatments and require additional regulatory review or measures, which could increase the cost of or prolong our clinical trials.

The FDA has not approved any recombinant DNA therapy products of the types being developed by us for sale in the United States. The commercial success of our products will depend in part on public acceptance of the use of these types of recombinant DNA products, which are a new type of disease treatment for the prevention or treatment of human diseases. Public attitudes may be influenced by claims that these types of recombinant DNA products are unsafe, and these treatment methodologies may not gain the acceptance of the public or the medical community. Negative public reaction to these types of recombinant DNA products could also result in greater government regulation and stricter clinical trial oversight.

Patient enrollment may be slow and patients may discontinue their participation in clinical studies, which may negatively impact the results of these studies and extend the timeline for completion of our and our collaborators' development programs for our product candidates.

The time required to complete clinical trials is dependent upon, among other factors, the rate of patient enrollment. Patient enrollment is a function of many factors, including:

- the size of the patient population;

- the nature of the clinical protocol requirements;

- the diversion of patients to other trials or marketed therapies;

- the ability to recruit and manage clinical centers and associated trials;

- the proximity of patients to clinical sites; and

- the patient eligibility criteria for the study.

We are subject to the risk that patients enrolled in our and our collaborators' clinical studies for our product candidates may discontinue their participation at any time during the study as a result of a number of factors, including, withdrawing their consent or experiencing adverse clinical events which may or may not be related to our product candidates under evaluation. We are subject to the risk that if a large number of patients in any one of our studies discontinue their participation in the study, the results from that study may not be positive or may not support an NDA for regulatory approval of our product candidates or we may be forced to terminate or abandon the study.

We cannot predict the safety profile of the use of ADVEXIN therapy when used in combination with other therapies.

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Many of our trials involve the use of ADVEXIN therapy in combination with other drugs or therapies. While the data we have evaluated to date suggest ADVEXIN therapy does not increase the adverse effects of other therapies, we cannot predict if this outcome will continue to be true or whether possible adverse side effects not directly attributable to the other drugs will compromise the safety profile of ADVEXIN therapy when used in certain combination therapies.

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Our commercial success will depend in part on obtaining patent protection for our products and other technologies and successfully defending these patents against third-party challenges. Our patent position, like that of other biotechnology and pharmaceutical companies, is highly uncertain. One uncertainty is that the United States Patent and Trademark Office, or PTO, or the courts, may deny or significantly narrow claims made under patents issued to us or patent applications we file. This is particularly true for patent applications or patents that concern biotechnology and pharmaceutical technologies, such as ours, since the PTO and the courts often consider these technologies to involve unpredictable sciences. Another uncertainty is that any patents that may be issued or licensed to us may not provide any competitive advantage to us because they may not effectively preclude others from developing and marketing products like ours. Also, our patents may be successfully challenged, invalidated or circumvented in the future. In addition, our competitors, many of which have substantial resources and have made significant investments in competing technologies, may seek to apply for and obtain patents that will prevent, limit or interfere with our ability to make, use and sell our potential products either in the United States or in foreign markets.

Our ability to develop and protect a competitive position based on our biotechnological innovations, innovations involving molecular therapies, recombinant DNA therapeutic agents, viruses for delivering targeted molecular therapies to cells, formulations, delivery systems not involving viruses, and the like, is particularly uncertain. Due to the unpredictability of the biotechnological sciences, the PTO, as well as patent offices in other jurisdictions, has often required patent applications concerning biotechnology-related inventions to be limited or narrowed substantially to cover only the specific innovations exemplified in the patent application, thereby limiting their scope of protection against competitive challenges. Similarly, courts have invalidated or significantly narrowed many key patents in the biotechnology industry. Thus, even if we are able to obtain patents covering commercially significant innovations, our patents may not be upheld or our patents may be substantially narrowed.

Through our exclusive license with The University of Texas System for technology developed at M. D. Anderson Cancer Center, we have obtained and are currently seeking further patent protection for adenoviral p53, including ADVEXIN therapy, and its use in cancer therapy. Further, the PTO issued to us United States patents for our adenovirus production technology and our purified adenoviral compositions. We also control, through licensing arrangements, United States patents for combination therapy involving the p53 tumor suppressor and conventional chemotherapy or radiation, the use of adenoviral p53 in cancer therapy, adenoviral p53 as a product, the core DNA of adenoviral p53, pharmaceutical compositions of adenoviral p53 and clinical applications of such pharmaceutical compositions, as well as patents covering our mda-7 technology. Our competitors may challenge the validity of one or more of our patents in the courts or through an administrative procedure known as an interference, in which the PTO determines the priority of invention where two or more parties are claiming the same invention. The courts or the PTO may not uphold the validity of our patents, we may not prevail in such interference proceedings regarding our patents and none of our patents may give us a competitive advantage. In this regard, we have been notified by the PTO that an unidentified third party has attempted to initiate an interference with one of our patents directed to adenoviral p53 therapy. We do not presently know the identity of this party and cannot assess the likelihood of an interference actually being declared. Should that party prevail in an interference proceeding, a patent may issue to that party that is infringed by, and therefore potentially preclude our commercialization of, products like ADVEXIN therapy that are used for adenoviral p53 therapy.

Schering-Plough filed with the European Patent Office, or EPO, an opposition against our European patent directed to combination therapy with p53 and conventional chemotherapy and/or radiation. An opposition is an administrative proceeding instituted by a third party and conducted by the EPO to determine whether a patent should be maintained or revoked, in part or in whole, based on evidence brought forth by the party opposing the patent. In February 2006, the Technical Board of Appeals of the EPO held a final oral proceeding concerning Schering-Plough's opposition and determined our patent should be maintained as amended. No further appeal by Schering-Plough is possible.

We rely on trade secrets law to protect technology where we believe patent protection is not appropriate or obtainable. However, trade secrets are difficult to protect. In addition, we generally require employees, academic collaborators and consultants to enter into confidentiality agreements. Despite these measures, we may not be able to

adequately protect our trade secrets or other proprietary information. We are a party to various license agreements that give us rights to use specified technologies in our research and development processes. If we are not able to continue to license this technology on commercially reasonable terms, our product development and research may be delayed. In addition, in the case of technologies that we have licensed, we do not have the ability to make the final decisions on how the patent application process is managed, and accordingly are unable to exercise the same degree of control over this intellectual property as we exercise over our internally developed technology. Our research collaborators and scientific advisors have rights to publish data and information in which we have rights. If we cannot maintain the confidentiality of our

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technology and other confidential information in connection with our collaborations, then our ability to receive patent protection or protect our proprietary information will be diminished.

Third party claims of infringement of intellectual property could require us to spend time and money to address the claims and could limit our intellectual property rights.

The biotechnology and pharmaceutical industry has been characterized by extensive litigation regarding patents and other intellectual property rights, and companies have employed intellectual property litigation to gain a competitive advantage. We are aware of a number of issued patents and patent applications related to recombinant DNA therapy, the treatment of cancer and the use of the p53 and other tumor suppressors. Schering-Plough, including its subsidiary Canji, controls various United States applications and a European patent and applications, some of which are directed to therapy using p53, and others to adenoviruses containing p53, or adenoviral p53, and to methods for carrying out therapy using adenoviral p53. Adenoviral p53 technology underlies our ADVEXIN therapy product candidate. Furthermore, we are aware of a United States patent directed to replication-deficient recombinant adenoviral vectors apparently controlled by Transgene SA (Transgene). While we believe the claims of the Transgene adenoviral vector patent are invalid or not infringed by our products, Transgene could assert a claim against us.

One of the foregoing patent applications directed to p53 therapy, which we understand is owned by The Johns Hopkins University (Johns Hopkins) and controlled by Schering-Plough, was involved in a PTO interference proceeding with a patent owned by Canji. This Johns Hopkins application was the United States counterpart to the European patent recently revoked in its entirety by the EPO (see below). Priority of invention in that interference was awarded by the PTO to the Johns Hopkins inventors, leading to the issuance of a United States patent, and the Canji patent has been found unpatentable. While it is our belief that the claims of the Johns Hopkins patent are invalid and not infringed by our ADVEXIN therapy, Schering-Plough or Johns Hopkins may assert that our ADVEXIN therapy, which uses p53 therapy, infringes the claims of such patent. While we believe we would have both an invalidity and non-infringement defense against such an assertion, in the United States an issued patent enjoys a presumption of validity, which can be overcome only through clear and convincing evidence. We cannot assure such a defense would prevail.

We may also become subject to infringement claims or litigation arising out of other patents and pending applications of our competitors, if they issue, or additional interference proceedings are declared by the PTO to determine the priority of inventions. The defense and prosecution of intellectual property suits, PTO interference proceedings and related legal and administrative proceedings are costly and time-consuming to pursue, and their outcome is uncertain. Litigation may be necessary to enforce our issued patents, to protect our trade secrets and know-how or to determine the enforceability, scope and validity of the proprietary rights of others. An adverse determination in litigation or interference proceedings to which we may become a party could subject us to significant liabilities, require us to obtain licenses from third parties, or restrict or prevent us from selling our products in certain markets. Although patent and intellectual property disputes are often settled through licensing or similar arrangements, costs associated with such arrangements may be substantial and could include ongoing royalties. Furthermore, the necessary licenses may not be available to us on satisfactory terms, if at all. In particular, if we were found to infringe a valid claim of the Transgene adenoviral vector United States patent, the Johns Hopkins patent or a patent that may issue from a currently pending application, our business could be materially harmed.

We have recently been involved in patent opposition proceedings before the EPO, in which we have sought to have the EPO revoke three different European patents owned or controlled by Canji/Schering-Plough. These European patents relate to the use of p53, or the use of tumor suppressors, in the preparation of therapeutic products. In one opposition involving a Canji European patent directed to the use of a recombinant tumor suppressor, the EPO revoked the European patent in its entirety in a final, non-appealable decision. In the second opposition, involving a patent that is directed to therapeutic and other applications of the p53 and that is owned by Johns Hopkins and, we understand, controlled by Schering-Plough, the EPO recently revoked the patent in its entirety. The patent owner appealed this decision and the final hearing before the EPO Technical Board of Appeals was held in June 2005, at which time the Technical Board of Appeals confirmed the final revocation of all claims of this patent relevant to clinical therapeutic applications of p53. In a third case involving the use of p53, the European patent at issue was initially upheld, but finally revoked in a hearing held in late April 2004.

We may be subject to litigation and infringement claims that may be costly, divert management's attention and materially harm our business.

Extensive litigation regarding patents and other intellectual property rights has been common in the biopharmaceutical industry. Litigation may be necessary to assert infringement claims, enforce patent rights, protect trade secrets or know-how and determine the enforceability, scope and validity of certain proprietary rights. The defense and prosecution of intellectual property lawsuits, PTO

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interference proceedings, and related legal and administrative proceedings in the United States and internationally involve complex legal and factual questions. As a result, such proceedings are costly and time-consuming to pursue and their outcome is uncertain.

Regardless of merit or outcome, our involvement in any litigation, interference or other administrative proceedings could cause us to incur substantial expense and could significantly divert the efforts of our technical and management personnel. An adverse determination may subject us to the loss of our proprietary position or to significant liabilities, or require us to seek licenses that may include substantial cost and ongoing royalties. Licenses may not be available from third parties, or may not be obtainable on satisfactory terms. An adverse determination or a failure to obtain necessary licenses may restrict or prevent us from manufacturing and selling our products, if any. These outcomes could materially harm our business, financial condition and results of operations.

If we fail to meet our obligations under license agreements, we may lose our rights to key technologies on which our business depends.

Our business depends in part on patents licensed from third parties. Those third-party license agreements impose obligations on us, such as payment obligations and obligations to diligently pursue development of commercial products under the licensed patents. If a licensor believes we have failed to meet our obligations under a license agreement, the licensor could seek to limit or terminate our license rights, which could lead to costly and time-consuming litigation and, potentially, a loss of the licensed rights. During the period of any such litigation, our ability to carry out the development and commercialization of product candidates could be significantly and negatively affected. If our license rights were restricted or ultimately lost, our ability to continue our business based on the affected technology platform would be severely adversely affected.

Competition and technological change may make our product candidates and technologies less attractive or obsolete.

We compete with pharmaceutical and biotechnology companies, including Canji and Genvec, which are pursuing forms of treatment similar to ours for the diseases ADVEXIN therapy and our other product candidates target. We are aware that Canji, with its parent Schering-Plough, has in the past been involved in research and/or development of adenoviral p53 products and has numerous patents and patent applications relating to adenoviral p53 therapy. We understand Schering-Plough has stopped its adenoviral p53 clinical trials, and it is unknown whether these parties are continuing their adenoviral p53 research and/or development efforts. We are also aware that a Chinese pharmaceutical company, SiBiono GeneTech, has recently announced it has received regulatory approval from the Chinese drug regulatory agency to market an adenoviral p53 product only in China. We control an issued Chinese patent covering adenoviral p53, and a number of pending Chinese applications directed to p53 therapy and adenoviral production. We understand enforcement of patents in China is unpredictable and we do not know if monetary damages could be recovered from SiBiono GeneTech if its product infringes our patent or patent applications. Patent enforcement and respect of international patent standards, rules and laws have not historically been a key characteristic of the Chinese government and patent system. Further, geopolitical developments, including trade and tariff disputes between the government of China and the United States Department of Commerce could add additional uncertainty to any effort to enforce patents, recover damages, if any, or engage in the sales and marketing of patented or non-patented products in China. We are aware that ImClone and Bristol Myers Squibb have obtained marketing approval for a monoclonal antibody product (Erbix) for the treatment of certain kinds of recurrent head and neck cancer. We also may face competition from companies that may develop internally or acquire competing technology from universities and other research institutions. As these companies develop or acquire their technologies, they may develop competitive positions that may prevent or limit our product commercialization efforts.

Some of our competitors are established companies with greater financial and other resources than ours. Other companies may succeed in developing products earlier than we do, obtaining FDA or foreign regulatory authority approval for products before we do or developing products that are more effective than our product candidates. While we will seek to expand our technological capabilities to remain competitive, research and development by others may render our technology or product candidates obsolete or non-competitive or result in treatments or cures superior to any therapy developed by us.

Even if we receive regulatory approval to market our ADVEXIN therapy, INGN 241, INGN 225 or other product candidates, we may not be able to commercialize them profitably.

Our profitability will depend on the market's acceptance of ADVEXIN therapy, INGN 241, INGN 225 and our other product candidates, if approved. The commercial success of our product candidates will depend on whether: they are more effective than alternative treatments;

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their side effects are acceptable to patients and doctors;

insurers and other third-party healthcare payers will provide adequate reimbursement for them;

we produce and sell them at a profit; and

we market ADVEXIN therapy, INGN 241, INGN 225 and our other product candidates effectively.

We must achieve significant market share and obtain high per-patient prices for our products to achieve profitability.

ADVEXIN therapy, our lead product candidate, will, if approved, initially be targeted for the treatment of recurrent head and neck cancer, a disease with an annual incidence of approximately 40,000 patients in the United States. As a result, our per-patient prices must be sufficiently high in order to recover our development costs and achieve profitability. Until additional disease targets with larger potential markets are approved, we believe we will need to market worldwide to achieve significant market penetration. If we are unable to obtain sufficient market share for our drug products at a high enough price, or obtain expanded approvals for larger markets, we may not achieve profitability or be able to independently continue our product development efforts.

If we are unable to manufacture our products in sufficient quantities or obtain regulatory approvals for our manufacturing facilities, or if our manufacturing process is found to infringe a valid patented process or processes of another company, then we may be unable to meet demand for our products and lose potential revenue.

To complete our clinical trials and commercialize our product candidates, if approved, we will need access to, or will need to develop, facilities to manufacture a sufficient supply of our product candidates. We have used manufacturing facilities we constructed in Houston, Texas to manufacture ADVEXIN therapy, INGN 241 and other product candidates for currently planned clinical trials. We anticipate our facilities are suitable for the initial commercial launch of ADVEXIN therapy. We have no experience manufacturing ADVEXIN therapy, INGN 241 or any other product candidates in the volumes necessary to support commercial sales. If we are unable to manufacture our product candidates in clinical or, when necessary, commercial quantities, then we will need to rely on third-party manufacturers to produce our products for clinical and commercial purposes. These third-party manufacturers must receive FDA approval before they can produce clinical material or commercial product. Our products may be in competition with other products for access to these facilities and may be subject to delays in manufacturing if third parties give other products greater priority than ours. In addition, we may not be able to enter into any necessary third-party manufacturing arrangements on acceptable terms. There are a limited number of contract manufacturers who currently have the capability to produce ADVEXIN therapy, INGN 241 and our other product candidates, and the inability of any of these contract manufacturers to deliver our required quantities of product candidates timely and at commercially reasonable prices would negatively affect our operations.

Before we can begin commercially manufacturing ADVEXIN therapy, INGN 241 or any other product candidate, we must obtain regulatory approval of our manufacturing facilities and process. Manufacturing of our product candidates for clinical and commercial purposes must comply with the FDA's cGMP requirements, and foreign regulatory requirements. The cGMP requirements govern quality control and documentation policies and procedures. In complying with cGMP and foreign regulatory requirements, we will be obligated to expend time, money and effort in production, record keeping and quality control to assure the product meets applicable specifications and other requirements. We must also pass a FDA inspection prior to FDA approval.

Our current manufacturing facilities have not yet been subject to a Pre-Approval Inspection by the FDA or foreign regulatory authorities. Failure to pass Pre-Approval Inspections may significantly delay approval of our products. If we fail to comply with these requirements, we would be subject to possible regulatory action and may be limited in the jurisdictions in which we are permitted to sell our products. Further, the FDA and foreign regulatory authorities have the authority to perform unannounced periodic inspections of our manufacturing facilities to ensure compliance with cGMP and foreign regulatory requirements. Our facilities in Houston, Texas are our only manufacturing facilities. If these facilities were to incur significant damage or destruction, then our ability to manufacture ADVEXIN

therapy, INGN 241 or any other product candidates would be significantly hampered, and our pre-clinical testing, clinical trials and commercialization efforts would be delayed.

In order to produce our products in the quantities we believe will be required to meet anticipated market demand, if our products are approved, we will need to increase, or scale-up, our production process. If we are unable to do so, or if the cost of this scale-up is not economically viable to us, we may not be able to produce our products in a sufficient quantity to meet the requirements of future demand.

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Canji controls a United States patent and the corresponding international applications, including a European counterpart, relating to the purification of viral or adenoviral compositions. While we believe our manufacturing process does not infringe this patent, Canji could still assert a claim against us. We may also become subject to infringement claims or litigation if our manufacturing process infringes other patents. The defense and prosecution of intellectual property suits and related legal and administrative proceedings are costly and time-consuming to pursue, and their outcome is uncertain.

We rely on a limited number of suppliers for some of our manufacturing materials. Any problems experienced by such suppliers could negatively affect our operations.

We rely on third-party suppliers for most of the equipment, materials and supplies used in the manufacturing of ADVEXIN therapy, INGN 241 and our other product candidates. Some items critical to the manufacturing of these product candidates are available from a limited number of suppliers or vendors. We do not have supply agreements with these key suppliers. To mitigate the related supply risk, we maintain inventories of these items. Any significant problem experienced by one or more of these limited number of suppliers could result in a delay or interruption in the supply of materials to us until the supplier cures the problem or until we locate an alternative source of supply. Such problems would likely lead to a delay or interruption in our manufacturing operations or could require a significant modification to our manufacturing process, which could impair our ability to manufacture our product candidates in a timely manner and negatively affect our operations.

If product liability lawsuits are successfully brought against us, we may incur substantial damages and demand for our product candidates may be reduced.

The testing and marketing of medical products is subject to an inherent risk of product liability claims. Regardless of their merit or eventual outcome, product liability claims may result in:

decreased demand for our product candidates;

injury to our reputation and significant media attention;

withdrawal of clinical trial volunteers;

substantial delay in or withdrawal of FDA or foreign regulatory authority approval;

costs of litigation; and

substantial monetary awards to plaintiffs.

We currently maintain product liability insurance with coverage of \$5.0 million per occurrence with a \$10.0 million annual aggregate limit. This coverage may not be sufficient to protect us fully against product liability claims. We intend to expand our product liability insurance coverage beyond clinical trials to include the sale of commercial products if we obtain marketing approval for any of our product candidates. Our inability to obtain sufficient product liability insurance at an acceptable cost to protect against product liability claims could prevent or limit the commercialization of our products.

We use hazardous materials in our business. Any claims relating to improper handling, storage, use or disposal of these materials could significantly harm our business.

Our business involves the use of a broad range of hazardous chemicals and materials. Environmental laws impose stringent civil and criminal penalties for improper handling, disposal and storage of these materials. In addition, in the event of the improper or unauthorized release of, or the exposure of individuals to, hazardous materials, we could be subject to civil liability due to personal injury or property damage caused by the release or exposure. A failure to comply with environmental laws could result in fines and the revocation of environmental permits, which could significantly harm our business.

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Our stock price may fluctuate substantially.

The market price for our common stock may be affected by a number of factors, including:
progress and results of our pre-clinical and clinical trials;

announcement of technological innovations by us or our competitors;

developments concerning proprietary rights, including patent and litigation matters;

publicity regarding actual or potential results with respect to products under development by us or by our competitors;

regulatory developments;

the announcement of new products by us or our competitors;

quarterly variations in our or our competitors' results of operations;

failure to achieve operating results projected by securities analysts;

changes in earnings estimates or recommendations by securities analysts;

developments in our industry; and

general market conditions and other factors.

In addition, stock prices for many companies in the technology and emerging growth sectors have experienced wide fluctuations that have often been unrelated to the operating performance of such companies.

If we do not progress in our programs as anticipated, our stock price could decrease.

For planning purposes, we estimate the timing of a variety of clinical, regulatory and other milestones, such as when a certain product candidate will enter clinical development, when a clinical trial will be completed or when an application for regulatory approval will be filed. Some of our estimates are included in our Annual Report on Form 10-K for the year ended December 31, 2006, filed with the SEC on March 8, 2007. Our estimates are based on present facts and a variety of assumptions. Many of the underlying assumptions are outside of our control. If milestones are not achieved when we expect them to be, investors could be disappointed, and our stock price may decrease.

Any acquisition we might make may be costly and difficult to integrate, divert management resources or dilute stockholder value.

As part of our business strategy, we may acquire assets or businesses principally relating to or complementary to our current operations, and we have in the past evaluated and discussed such opportunities with interested parties. Any acquisitions we undertake will be accompanied by the risks commonly encountered in business acquisitions. These risks include, among other things:

potential exposure to unknown liabilities of acquired companies;

the difficulty and expense of assimilating the operations and personnel of acquired businesses;

diversion of management time and attention and other resources;

loss of key employees and customers as a result of changes in management;

the incurrence of amortization expense; and

possible dilution to our stockholders.

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In addition, geographic distances may make the integration of businesses more difficult. We may not be successful in overcoming these risks or any other problems encountered in connection with any acquisitions.

Due to the potential value of our strategic investments we could be determined to be an investment company, and if such a determination were made we would become subject to significant regulation that would adversely affect our business.

We may be deemed to be an investment company under the Investment Company Act of 1940 (Investment Company Act) if, among other things, we own investment securities with a value exceeding 40% of the value of our total assets, unless a particular exemption or safe harbor is applicable. At June 30, 2007, the value of our investment securities exceeded 40% of the value of our total assets, due primarily to an increase in the value of our non-controlling position in Silence Therapeutics (formerly SR Pharma). Our Board of Directors elected to take advantage of the Rule 3a-2 exemption for transient investment companies as of December 31, 2006, which allows us to avoid being deemed an investment company for up to one year as long as we have a bona fide intent to be engaged primarily, as soon as is reasonably possible, in a business other than that of investing, reinvesting, holding or trading in securities. In connection with such election, our Board of Directors directed management to take appropriate actions to regain compliance with the prima facie provisions of the Investment Company Act, including, among other things, liquidating certain investment securities. Accordingly, among other things, we intend over time to reduce the level of our investment securities by periodic sales or other dispositions of such investment securities. These dispositions may be effected under unfavorable market conditions. The lower rates of return realized after the reinvestment of our investment portfolio, and any required dispositions of non-controlling investments, could adversely affect our future reported results.

Investment companies are subject to registration under the Investment Company Act and compliance with a variety of restrictions and requirements imposed by the Investment Company Act. If we were to be deemed an investment company we would become subject to these restrictions and requirements, and the consequences of having been an investment company without registering under the Investment Company Act could have a material adverse effect on our business, financial condition and results of operations, as well as restrict our ability to sell and issue securities, borrow funds, engage in various transactions or other activities and make certain investment decisions. In addition, we may incur significant costs to avoid investment company status if an exemption from the Investment Company Act were to be considered unavailable to us at a time when the value of our investment securities exceeds 40% of the value of our total assets. We believe that we are primarily engaged in the research, development and commercialization of biological cancer therapies and that any investment securities are ancillary to our primary business. We believe we are generally otherwise exempted from the definition of an investment company and the registration requirements of the Investment Company Act, but, absent an exemptive order from the SEC, this result cannot be assured. Nevertheless, to address any uncertainty in this regard, we generally invest a significant portion of our portfolio in money market funds and U.S. government securities and limit the level of investment in corporate bonds and other instruments that could be considered investment securities.

If we lose key personnel or are unable to attract and retain additional, highly skilled personnel required to develop our products or obtain new collaborations, our business will suffer.

We depend, to a significant extent, on the efforts of our key employees, including senior management and senior scientific, clinical, regulatory, manufacturing and other personnel. The development of new therapeutic products requires expertise from a number of different disciplines, some of which is not widely available. We depend upon our scientific staff to discover new product candidates and to develop and conduct pre-clinical studies of those new potential products. Our clinical and regulatory staff is responsible for the design and execution of clinical trials in accordance with FDA and foreign regulatory authority requirements and for the advancement of our product candidates toward FDA and foreign regulatory authority approval. Our manufacturing staff is responsible for designing and conducting our manufacturing processes in accordance with the FDA's CGMP requirements. The quality and reputation of our scientific, clinical, regulatory and manufacturing staff, especially the senior staff, and their success in performing their responsibilities, are a basis on which we attract potential funding sources and collaborators. In addition, our Chief Executive Officer and other executive officers are involved in a broad range of critical activities, including providing strategic and operational guidance. The loss of these individuals, or our inability to retain or recruit other key management and scientific, clinical, regulatory, manufacturing and other personnel, may

delay or prevent us from achieving our business objectives. We face intense competition for personnel from other companies, universities, public and private research institutions, government entities and other organizations.

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Future changes in financial accounting standards or practices or existing taxation rules or practices may cause adverse unexpected financial reporting fluctuations and affect our reported results of operations.

A change in accounting standards or practices or a change in existing taxation rules or practices can have a significant effect on our reported results and may even affect our reporting of transactions completed before the change is effective. New accounting pronouncements and taxation rules and varying interpretations of accounting pronouncements and taxation practice have occurred and may occur in the future. Changes to existing rules or the questioning of current practices may adversely affect our reported financial results or the way we conduct our business. For example, Statement of Financial Accounting Standards (SFAS) No. 123R, Share-Based Payment, became effective for us on January 1, 2006. This statement requires that employee share-based compensation be measured based on its fair value on the grant date and treated as an expense that is reflected in the financial statements over the related service period. SFAS No. 123R has had a significant impact on our results of operations for the three months ended March 31, 2007. Using the Black-Scholes option pricing model to compute share-based compensation expense as we do requires extensive use of accounting judgment and financial estimates. Items requiring estimation include the expected term optionholders will retain their vested stock options before exercising them, the estimated volatility of our common stock price over the expected term of a stock option and the number of stock options that will be forfeited prior to the completion of their vesting requirements. Application of alternative assumptions could result in significantly different share-based compensation amounts being recorded in our financial statements. We anticipate that SFAS No. 123R will continue to have a significant impact on our results of operations.

Our corporate governance structure, including provisions in our certificate of incorporation and by-laws, 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 and by-laws 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 the inability of stockholders to act by written consent or to call special meetings, the ability of our board of directors to designate the terms of and issue new series of preferred stock without stockholder approval and the fact that our board of directors is divided into three classes serving staggered three-year terms.

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 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 or our other securities.

Some of our insiders are parties to transactions with us that may cause conflicting obligations.

Dr. John N. Kapoor, the Chairman of our Board of Directors, is also associated with EJ Financial, a healthcare investment firm that is wholly owned by him, and therefore may have conflicts of interest in allocating his time among us and his other business activities, and he may have legal obligations to multiple entities. We have entered into a consulting agreement with EJ Financial. The consulting agreement provides we will pay EJ Financial \$175,000 per year for certain management consulting services, which is based on anticipated time spent by EJ Financial personnel on our affairs. EJ Financial is also involved in the management of healthcare companies in various fields, and Dr. Kapoor is involved in various capacities with the management and operation of these companies. In addition, EJ Financial is involved with other companies in the cancer field. Although these companies are pursuing different therapeutic approaches for the treatment of cancer, discoveries made by one or more of these companies could render our products less competitive or obsolete.

David Parker, Ph.D., J.D., our Vice President, Intellectual Property, is a partner with the law firm Fulbright & Jaworski LLP, which provides legal services to us as our primary outside counsel for intellectual property matters.

In October 2004, we acquired all of the outstanding capital stock of Magnum, a company owned at the time of this acquisition by one of our executive officers. We paid approximately \$1.75 million for the Magnum stock by issuing approximately 252,000 shares of our common stock valued at approximately \$1.48 million at the acquisition date and assuming liabilities of approximately \$272,000. With respect to the common stock we issued for the acquisition, 50% of the shares were held by an independent escrow agent for a period of approximately one year subsequent to the

acquisition date to satisfy the indemnification obligations of the selling shareholder under terms of the purchase agreement. Such shares have since been released from escrow. Magnum's primary asset is the funding it receives under a research grant from the NIH, which supplements our ongoing research and development programs. In the event certain of Magnum's technologies result in commercial products, we may be obligated to pay royalties related to the sales of those products to certain third parties.

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We have relationships with Jack A. Roth, M.D., and M. D. Anderson Cancer Center, both of whom are affiliated with The Board of Regents of the University of Texas System, one of our stockholders. For more information concerning these relationships, see our Notes to Consolidated Financial Statements beginning on page F-7 of our Annual Report on Form 10-K for the year ended December 31, 2006, filed with the SEC on March 8, 2007.

During the six months ended June 30, 2007, we became an owner of 49% of the outstanding stock of Introgen Research Institute (IRI). The other 51% of IRI is owned by our corporate Secretary, who is also an Introgen shareholder. We transferred to IRI an NIH grant originally awarded to us. IRI will be responsible for the remaining research contemplated by that grant and will receive future funding, if any, from the NIH under that grant. We have contractual relationships with IRI under which we may perform research and development services for them in the future.

During the six months ended June 30, 2007, we established GPL to develop and commercialize targeted molecular medicines in European markets. We anticipate Introgen will license certain of its technologies to one or more of these entities in connection with those activities. Introgen owns 85% of GPL in the form of preferred stock convertible by Introgen into common stock at any time. The other 15% of GPL is owned by certain of our directors, officers, employees and key medical consultants in the form of 150,000 shares of restricted common stock granted to them as approved by our Board of Directors. The restricted common stock of GPL is designed to provide performance incentives similar in nature to a stock option plan. This stock is subject to transfer and other restrictions. These restrictions are subject to release under a four year vesting schedule that is contingent upon continued service by the stockholder to Introgen and/or GPL. This stock is voted by Introgen under proxy from the stockholders. This stock had a nominal value at the time it was issued such that the share-based compensation related to those shares at that time was not material.

We believe the foregoing transactions with insiders were and are in our best interests and the best interests of our stockholders. However, the transactions may cause conflicts of interest with respect to those insiders.

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

None.

Item 3. Defaults Upon Senior Securities

None.

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

None.

Item 5. Other Information

None.

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Item 6. Exhibits

Exhibit Number	Description of Document
10.63	Form of Restricted Stock Purchase Agreement entered into with certain directors, officers, employees and key medical consultants of Introgen for the purchase of ordinary shares of GPL
31.1	Certification of Chief Executive Officer and Chief Financial Officer pursuant to Rule 13a-14(a) and Rule 15d-14(a) of the Exchange Act
32.1	Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 the Registrant has duly caused this Quarterly Report on Form 10-Q to be signed on its behalf by the undersigned thereunto duly authorized.

INTROGEN THERAPEUTICS, INC.

August 9, 2007

By: /s/ James W. Albrecht, Jr.
James W. Albrecht, Jr.
*On behalf of the Registrant and as Chief
Financial Officer
(Principal Financial and Accounting Officer)*

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