

IRONWOOD PHARMACEUTICALS INC  
Form 10-K  
February 21, 2013

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

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**FORM 10-K**

(Mark One)

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

For the fiscal year ended December 31, 2012

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 001-34620

**IRONWOOD PHARMACEUTICALS, INC.**

(Exact name of registrant as specified in its charter)

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

**04-3404176**  
(I.R.S. Employer  
Identification Number)

**301 Binney Street**  
**Cambridge, Massachusetts**  
(Address of Principal Executive Offices)

**02142**  
(Zip Code)

Registrant's telephone number, including area code: **(617) 621-7722**

Securities registered pursuant to Section 12(b) of the Act:

**Title of each class**  
Class A common stock, \$0.001 par value

**Name of each exchange on which registered**  
The NASDAQ Stock Market LLC  
(NASDAQ Global Select Market)

Securities registered pursuant to Section 12(g) of the Act: **None**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes  No

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Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Exchange Act. Yes  No

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 has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the Registrant was required to submit and post such files). Yes  No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company

(Do not check if a  
smaller reporting company)

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

Aggregate market value of voting stock held by non-affiliates of the Registrant as of June 30, 2012: \$1,323,551,816

As of February 11, 2013, there were 78,516,633 shares of Class A common stock outstanding and 29,469,995 shares of Class B common stock outstanding.

### **DOCUMENTS INCORPORATED BY REFERENCE:**

Portions of the definitive proxy statement for our 2013 Annual Meeting of Stockholders are incorporated by reference into Part III of this report.

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**NOTE REGARDING FORWARD-LOOKING STATEMENTS**

This Annual Report on Form 10-K, including the sections titled "Business," "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" contains forward-looking statements. All statements contained in this Annual Report on Form 10-K other than statements of historical fact are forward-looking statements. Forward-looking statements include statements regarding our future financial position, business strategy, budgets, projected costs, plans and objectives of management for future operations. The words "may," "continue," "estimate," "intend," "plan," "will," "believe," "project," "expect," "seek," "anticipate" and similar expressions may identify forward-looking statements, but the absence of these words does not necessarily mean that a statement is not forward-looking. These forward-looking statements include, among other things, statements about:

the market potential for LINZESS (linaclotide) in the U.S. and Constella® (linaclotide) in the E.U.;

the timing, investment and associated activities involved in commercializing linaclotide by us and Forest Laboratories, Inc. in the U.S. and by our partners in other countries in the world;

the timing and execution of the launch of Constella in the E.U.;

the ability of our partners and third party manufacturers to manufacture and distribute sufficient amounts of linaclotide on a commercial scale;

our expectations regarding U.S. and foreign regulatory requirements, including our post-approval, nonclinical and clinical post-marketing plan with the FDA to understand linaclotide's efficacy and safety in pediatric patients;

our partners' ability to obtain foreign regulatory approval of linaclotide and the ability of all of our product candidates to meet existing or future regulatory standards;

the safety profile and related adverse events of linaclotide;

the ability of our partners to perform their obligations under our collaboration and license agreements with them;

the therapeutic benefits and effectiveness of our product candidates;

our plans with respect to collaborations and licenses related to the development, manufacture or sale of our product candidates, as well as the in-licensing or acquisition of externally discovered programs;

our expectations as to future financial performance, expense levels, capital raising and liquidity sources;

our ability to compete with other companies that are or may be developing or selling products that are competitive with our products and product candidates;

the status of government regulation in the life sciences industry, particularly with respect to health care reform;

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trends and challenges in our potential markets;

our ability to attract and motivate key personnel; and

other factors discussed elsewhere in this Annual Report on Form 10-K.

Any or all of our forward-looking statements in this Annual Report on Form 10-K may turn out to be inaccurate. These forward-looking statements may be affected by inaccurate assumptions or by known or unknown risks and uncertainties, including the risks, uncertainties and assumptions identified under the heading "Risk Factors" in this Annual Report on Form 10-K. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this Annual

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Report on Form 10-K may not occur as contemplated, and actual results could differ materially from those anticipated or implied by the forward-looking statements.

You should not unduly rely on these forward-looking statements, which speak only as of the date of this Annual Report on Form 10-K. Unless required by law, we undertake no obligation to publicly update or revise any forward- looking statements to reflect new information or future events or otherwise. You should, however, review the factors and risks we describe in the reports we will file from time to time with the United States Securities and Exchange Commission, or the SEC, after the date of this Annual Report on Form 10-K.

**NOTE REGARDING TRADEMARKS**

LINZESS and Constella® are trademarks of Ironwood Pharmaceuticals, Inc. Any other trademarks referred to in this Annual Report Form 10-K are the property of their respective owners. All rights reserved.

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**PART I**

**Item 1. Business**

**Our Company**

We are an entrepreneurial pharmaceutical company focused on the discovery, development and commercialization of medicines that improve patients' lives. At Ironwood, we're focused on three goals: transforming knowledge into medicines that make a difference for patients, creating value that will earn the continued support of our fellow stockholders, and building a team that passionately pursues excellence. If we do these things well, we hope to earn the right to continue doing them and, one step at a time, build an enduring pharmaceutical company that helps patients lead better lives. We have one marketed product, linaclotide, which is available in the United States under the trademarked name LINZESS and was recently approved in the European Union under the trademarked name Constella. Linaclotide is also being developed in other parts of the world by certain of our partners. We are exploring development opportunities to broaden the LINZESS label, both within its current indication and by investigating potential future indications and combination based products. In addition, we also have a pipeline of early development candidates and discovery research programs in multiple therapeutic areas.

For the foreseeable future, we intend to play an active role in the commercialization of our products in the U.S., and to out-license commercialization rights for other territories. We believe in the long-term value of our drug candidates, so we seek collaborations that provide meaningful economics and incentives for us and any potential partner. Furthermore, we seek partners who share our values, culture, processes and vision for our products, which we believe will enable us to work with those partners successfully for the entire potential patent life of our drugs.

*Linaclotide*

Linaclotide provides patients and healthcare practitioners with a new therapy for irritable bowel syndrome with constipation, or IBS-C, and chronic idiopathic constipation, or CIC, gastrointestinal disorders that affect millions of sufferers worldwide, according to our analysis of studies performed by N.J. Talley (published in 1995 in the *American Journal of Epidemiology*), P.D.R. Higgins (published in 2004 in the *American Journal of Gastroenterology*) and A.P.S. Hungin (published in 2003 in *Alimentary Pharmacology and Therapeutics*) as well as 2007 U.S. census data.

Ironwood has been pursuing the development of linaclotide since its discovery by our scientists in 2003. In August 2012, the United States Food and Drug Administration, or FDA, approved LINZESS as a once-daily treatment for adult men and women suffering from IBS-C or CIC. LINZESS is the first and only FDA-approved guanylate cyclase type-C, or GC-C, agonist. LINZESS is being commercialized in the U.S. by us and our collaboration partner, Forest Laboratories, Inc., or Forest. We and Forest began commercializing LINZESS in the U.S. during December 2012.

In November 2012, the European Commission granted marketing authorization to Constella for the symptomatic treatment of moderate to severe IBS-C in adults. Constella is the first and only drug approved in the E.U. for IBS-C. Our European partner, Almirall S.A., or Almirall, has exclusive marketing rights for Constella in Europe (including the Commonwealth of Independent States and Turkey).

Beyond our efforts in the U.S. and Europe, we and our partners continue to advance linaclotide in other parts of the world. In October 2012, Astellas Pharma Inc., or Astellas, our partner in Japan and certain other Asian countries, initiated a double-blind, placebo-controlled, dose-ranging Phase 2 clinical trial of linaclotide in more than 500 Japanese adult patients with IBS-C. In October 2012, we entered into a collaboration agreement with AstraZeneca AB, or AstraZeneca, to co-develop and co-commercialize linaclotide in China, Hong Kong and Macau. In May 2012, we submitted a Clinical

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Trial Application, or CTA, to China's State Food and Drug Administration for a Phase 3 trial of linaclotide in patients with IBS-C. The CTA has been approved. We continue to assess alternatives to bring linaclotide to IBS-C and CIC sufferers in the parts of the world outside of our partnered territories.

We are also exploring development opportunities to strengthen the clinical profile of LINZESS within its indicated population and to expand the product label for additional patient populations and indications, and we are exploring the potential for linaclotide-based combination products. As part of this strategy, we and Forest initiated a Phase 3b clinical trial to further characterize the effect of linaclotide on abdominal symptoms in patients with CIC.

Upon FDA-approval of LINZESS in the U.S., we received five years of exclusivity under the Drug Price Competition and Patent Term Restoration Act of 1984, or the Hatch-Waxman Act. In addition, LINZESS is covered by a U.S. composition of matter patent that expires in 2024, subject to possible patent term extension to 2026. Linaclotide is also covered by E.U. and Japanese composition of matter patents, both of which expire in 2024, subject to possible patent term extension.

*Linaclotide Partners*

We have pursued a partnering strategy for commercializing linaclotide that has enabled us to retain significant control over linaclotide's development and commercialization worldwide, share the costs with collaborators whose capabilities complement ours, and retain a significant portion of linaclotide's future long-term value. As of December 31, 2012, licensing fees, milestone payments, related equity investments and development, selling and marketing costs received from our linaclotide partners totaled approximately \$448.0 million.

In September 2007, we entered into a collaboration agreement with Forest to develop and commercialize linaclotide in North America. Under the terms of the collaboration agreement, we and Forest are jointly and equally funding the development and commercialization of LINZESS in the U.S., with equal share of any profits or losses. Additionally, we granted Forest exclusive rights to develop and commercialize linaclotide in Canada and Mexico in which we receive royalties in the mid-teens on net sales in those countries. In September 2012, Forest sublicensed its commercialization rights in Mexico to Almirall. If linaclotide is successfully commercialized in the U.S., total licensing, milestone payments and related equity investments to us under the Forest collaboration agreement could total up to \$330 million, including the \$205 million that Forest has already paid to us in license fees and development-related milestones and the \$25 million of our capital stock that Forest has already purchased.

In April 2009, we entered into a license agreement with Almirall to develop and commercialize linaclotide in Europe (including the Commonwealth of Independent States and Turkey). If linaclotide is successfully commercialized in the Almirall territory, total licensing, milestone payments and related equity investments to us could total up to \$95 million, including the \$57 million, net of foreign withholding taxes, that Almirall has already paid to us in development-related milestones and the \$15 million of our capital stock that Almirall has already purchased. Almirall will pay us gross royalties which escalate based on sales volume in the Almirall territory, beginning in the mid-twenties, less the transfer price paid for the active pharmaceutical ingredient.

In November 2009, we entered into a license agreement with Astellas to develop and commercialize linaclotide in Japan, South Korea, Taiwan, Thailand, the Philippines and Indonesia. If linaclotide is successfully developed and commercialized in the Astellas territory, total licensing and milestone payments to us could total up to \$75 million, including the \$30 million that has already been paid to us. If Astellas receives approval to market and sell linaclotide, Astellas will pay us gross royalties which escalate based on sales volume in the Astellas territory, beginning in the low-twenties, less the transfer price paid for the active pharmaceutical ingredient.



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In October 2012, we entered into a collaboration with AstraZeneca to co-develop and co-commercialize linaclotide in China. Under the terms of the agreement, we and AstraZeneca are jointly funding the development and commercialization of linaclotide in China, Hong Kong and Macau, with AstraZeneca receiving 55% of the net profits or incurring 55% of the net losses until a certain specified commercial milestone is achieved, and profits or losses will be shared equally thereafter. If linaclotide is successfully developed and commercialized in China, total licensing and milestone payments to us under the collaboration agreement could total up to \$150 million, including the \$25 million that AstraZeneca has already paid to us. As part of the collaboration, in February 2013, Ironwood's sales force began promoting AstraZeneca's NEXIUM® (esomeprazole magnesium) in the U.S.

We have retained all rights to linaclotide outside of the territories discussed above and continue to evaluate partnership opportunities in those unpartnered regions.

*Pipeline*

We invest carefully in our pipeline, and the commitment of funding for each subsequent stage of our development programs is dependent upon the receipt of clear, supportive data. In addition to exploring further linaclotide development opportunities, our drugmaking processes have generated a pipeline of early development candidates and discovery research programs in multiple therapeutic areas, including gastrointestinal disease, central nervous system, or CNS, disorders, allergic conditions and cardiovascular disease.

We are also actively engaged in evaluating and licensing rights to externally discovered drug candidates at all stages of development. In evaluating potential assets, we apply the same investment criteria whether the assets are internally or externally discovered. Linaclotide is our only product or product candidate that has demonstrated clinical proof of concept.

In order to successfully grow our business, we will need to overcome the enormous challenges inherent in the pharmaceutical product development model. Developing a novel therapeutic agent can take a decade or more and cost hundreds of millions of dollars, and most drug candidates fail to reach the market profitably. We recognize that most companies undertaking this endeavor fail, yet despite the significant risks and our own experiences with multiple failed drug candidates, we are enthusiastic and passionate about our mission to deliver life-changing medicines to patients. To achieve our mission, we are building a team, a culture and processes centered on creating and marketing important new drugs. If we are successful getting medicines to patients and generating substantial returns for our stockholders, we plan to reinvest a portion of our future cash flows into our research and development efforts in order to accelerate and enhance our ability to bring new products to market.

We were incorporated in Delaware on January 5, 1998 as Microbia, Inc. On April 7, 2008, we changed our name to Ironwood Pharmaceuticals, Inc.

**Owner-related Business Principles**

We encourage all current and potential stockholders to read the owner-related business principles below that guide our overall strategy and decision making.

**1. Ironwood's stockholders own the business; all of our employees work for them.**

Each of our employees also has equity in the business, aligning their interests with their fellow stockholders. As employees and co-owners of Ironwood, our management and employee team seek to effectively allocate scarce stockholder capital to maximize the average annual growth of per share value.

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Through our policies and communication, we seek to attract like-minded owner-oriented stockholders. We strive to effectively communicate our views of the business opportunities and risks over time so that entering and exiting stockholders are doing so at a price that approximately reflects our intrinsic value.

**2. We believe we can best maximize long-term stockholder value by building a great pharmaceutical franchise.**

We believe that Ironwood has the potential to deliver outstanding long-term returns to stockholders who are sober to the risks inherent in the pharmaceutical product lifecycle and to the potential dramatic highs and lows along the way, and who focus on superior long-term, per share cash flows.

Since the pharmaceutical product lifecycle is lengthy and unpredictable, we believe it is critical to have a long-term strategic horizon. We work hard to embed our long-term focus into our policies and practices, which may give us a competitive advantage in attracting like-minded stockholders and the highest caliber employees. Our current and future employees may perceive both financial and qualitative advantages in having their inventions or hard work result in marketed drugs that they and their fellow stockholders continue to own. Some of our key policies and practices that are aligned with this imperative include:

a. Our dual class equity voting structure (which provides for super-voting rights of our pre-IPO stockholders only in the event of a change of control vote) is designed to concentrate change of control decisions in the hands of long-term focused owners who have a history of experience with us.

b. Compensation is weighted to equity over salary for all of our employees, and many employees have a significant portion of their incentive compensation in milestone-based equity grants that reward achievement of major value-creating events a number of years out from the time of grant.

c. We have adopted a change of control severance plan for all of our employees that is intended to encourage them to bring forward their best ideas by providing them with the comfort that if a change of control occurs and their employment is terminated, they will still have an opportunity to share in the economic value that they have helped create for stockholders.

d. All of the members of our board of directors are substantial investors in the company. Furthermore, each director is required to hold all shares of stock acquired as payment for his or her service as a director throughout his or her term on the board.

e. Our partnerships with Forest, Almirall, Astellas and AstraZeneca all include standstill agreements, which serve to protect us from an unwelcome acquisition attempt by one of our partners. In addition, we have change of control provisions in our partnership agreements in order to protect the economic value of linaclotide should the acquirer of one of our partners be unable or unwilling to devote the time and resources required to maximize linaclotide's benefit to patients in their respective territory.

**3. We are and will remain careful stewards of our stockholders' capital.**

We work intensely to allocate capital carefully and prudently, continually reinforcing a lean, cost-conscious culture.

While we are mindful of the declining productivity and inherent challenges of pharmaceutical research and development, we intend to invest in discovery and development research for many years to come. Our singular passion is to create, develop and commercialize novel drug candidates, seeking

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to integrate the most successful drugmaking and marketing practices of the past and the best of today's cutting-edge technologies and basic research, development and commercialization advances.

While we hope to improve the productivity and efficiency of our drug creation efforts over time, our discovery process revolves around small, highly interactive, cross-functional teams. We believe that this is one area where our relatively small size is a competitive advantage, so for the foreseeable future, we do not expect our drug discovery team to grow beyond 100-150 scientists. We will continue to prioritize constrained resources and maintain organizational discipline. Once internally- or externally-derived candidates advance into development, compounds follow careful stage-gated plans, with further advancement depending on clear data points. Since most pharmaceutical research and development projects fail, it is critical that our teams are rigorous in making early go/no go decisions, following the data, terminating unsuccessful programs, and allocating scarce dollars and talent to the most promising efforts, thus enhancing the likelihood of late phase development success.

Our global operations and commercial teams take a similar approach to capital allocation and decision-making. By ensuring redundancy at each critical node of the linaclotide global supply chain, our global operations team is mitigating against a fundamental risk inherent with pharmaceuticals unanticipated shortages of commercial product. Likewise, we have established a commercial organization dedicated to bringing innovative, highly-valued healthcare solutions to all of our customers. Our commercial organization works closely and methodically with our global commercialization partners, striving to maximize linaclotide's commercial potential through focused efforts aimed at educating patients, payors and healthcare providers.

**4. Our financial goal is to maximize long-term per share cash flows.**

Our goal is to maximize long-term cash flows per share, and we will prioritize this even if it leads to uneven short-term financial results. If and when we become profitable, we expect and accept uneven earnings growth. Our underlying product development model is risky and unpredictable, and we have no intention to advance marginal development candidates or consummate suboptimal in-license transactions in an attempt to fill anticipated gaps in revenue growth. Successful drugs can be enormously beneficial to patients and highly profitable and rewarding to stockholders, and we believe strongly in our ability to occasionally (but not in regular or predictable fashion) create and commercialize great medicines that make a meaningful difference in patients' lives.

If and when we reach profitability, we do not intend to issue quarterly or annual earnings guidance, however we plan to be transparent about the key elements of our performance, including near-term operating plans and longer-term strategic goals.

**Our Strategy**

Our goal is to discover, develop and commercialize differentiated medicines that improve patients' lives, and to generate outstanding returns for our stockholders. Key elements of our strategy include:

attracting and incentivizing a team with a singular passion for creating, developing and commercializing medicines that can make a significant difference in patients' lives;

solidifying and expanding our position as the leader in the field of GC-C agonists;

successfully and profitably commercializing LINZESS in collaboration with Forest in the U.S.;

supporting our global partners to commercialize linaclotide outside of the U.S.;

harvesting the maximum value of linaclotide outside of our currently partnered territories;

exploring development opportunities to strengthen the clinical profile of LINZESS within its indicated population;



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seeking ways to expand the product label for LINZESS in additional patient populations and indications, as well as the potential for linaclotide-based combination products;

investing in our pipeline of novel product candidates and evaluating candidates outside of the company for in-licensing or acquisition opportunities;

maximizing the commercial potential of our drugs and playing an active role in their commercialization or find partners who share our vision, values, culture and processes; and

executing our strategy with our stockholders' long-term interests in mind by seeking to maximize long-term per share cash flows.

**Linaclotide**

In August 2012, LINZESS became the first and only guanylate GC-C agonist approved by the FDA for the treatment of both IBS-C and CIC in adults. Linaclotide is a promising treatment for patients suffering from both abdominal pain associated with IBS-C and constipation symptoms associated with both IBS-C and CIC. In four Phase 3 clinical trials of more than 2,800 adult patients, linaclotide was demonstrated to improve abdominal pain and constipation associated with IBS-C, as well as constipation, infrequent bowel movements, incomplete evacuation and hard stools associated with CIC. Improvements were reported in the first week of treatment and maintained throughout the treatment period. Additionally, patients reported symptoms returned within one week after discontinued use of linaclotide.

In November 2012, Constella became the first and only medicine approved by the European Commission for the symptomatic treatment of moderate to severe IBS-C in adults in the E.U. Constella is a once-daily capsule that improves abdominal pain/discomfort, bloating and constipation associated with IBS-C. Constella is described as a GC-C agonist with visceral analgesic and secretory activities in the product label for European use and Constella will be marketed by our European partner, Almirall.

Linaclotide is a 14 amino acid peptide agonist of GC-C, a receptor found on the luminal surface of the intestinal epithelium. As the figure below shows, activation of GC-C results in an increase of intracellular and extracellular cyclic guanosine monophosphate, or cGMP, which, based on nonclinical studies, is believed to act in two ways. First, elevation in intracellular cGMP stimulates secretion of chloride and bicarbonate into the intestinal lumen, mainly through activation of the cystic fibrosis transmembrane conductance regulator, or CFTR, ion channel, resulting in increased intestinal fluid and accelerated transit. Second, elevation in extracellular cGMP was shown to decrease the activity of pain-sensing nerves. The clinical relevance of the effects on pain-sensing nerves seen in nonclinical studies has not been established.

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**Irritable Bowel Syndrome with Constipation (IBS-C) and Chronic Idiopathic Constipation (CIC)**

IBS-C and CIC are chronic, functional gastrointestinal disorders that afflict millions of sufferers worldwide. IBS-C and CIC are characterized by frequent and bothersome symptoms that dramatically affect patients' daily lives. Symptoms of IBS-C include abdominal pain, discomfort or bloating and constipation symptoms (*e.g.* incomplete evacuation, infrequent bowel movements, hard/lumpy stools), while CIC is primarily characterized by constipation symptoms. Available treatment options primarily improve constipation, leading healthcare providers to diagnose and manage IBS-C and CIC based on stool frequency. However, patients view these conditions as multi-symptom disorders, and while laxatives can be effective at relieving constipation symptoms, they do not necessarily improve abdominal pain, discomfort or bloating, and can often exacerbate these symptoms. This disconnect between patients and physicians, amplified by patients' embarrassment to discuss all of their gastrointestinal symptoms, often delays diagnosis and may compromise treatment, possibly causing additional suffering and disruption to patients' daily activities.

Based on the Talley and Higgins studies, and 2007 U.S. census data, we estimate that in 2007, approximately 35 million to 46 million people in the U.S. suffered from symptoms of IBS-C or CIC, of whom between 9 million to 15.5 million patients sought medical care. As a result of the less than optimal treatment options currently available, patients seeking care experienced a very low level of satisfaction. Due to patients' lack of satisfaction with existing treatment options, about 70% of patients stop prescription therapy within one month, according to IMS Health. It is estimated that patients seek medical care from five or more different healthcare providers over the course of their illness with limited or no success, as shown in a 2009 study by D.A. Drossman in the *Journal of Clinical Gastroenterology*. Many of the remaining patients are too embarrassed to discuss the full range of their symptoms, or for other reasons do not see the need to seek medical care and continue to suffer in silence while unsuccessfully self-treating with fiber, OTC laxatives and other remedies which improve constipation, but often exacerbate pain and bloating.

We believe that the prevalence rates of IBS-C in Europe and Japan are similar to the prevalence rates in the U.S.

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**Competition**

By the time patients seek care from a physician, they have typically tried a number of available remedies and remain unsatisfied. Most IBS-C and CIC patients initially attempt self-treatment with over the counter medications such as laxatives, stool softeners or fiber supplementation, as well as attempts to modify their diet. While some of these therapies offer limited success in transit-related symptoms, they offer little to no effect on other bothersome symptoms from which patients are suffering. Prior to approval of LINZESS, physicians had very limited treatment options beyond what is readily available to the patient alone. Physicians typically have relied on fiber and laxatives, which can exacerbate bloating and abdominal pain, the same symptoms from which many patients are seeking relief and which are the most troubling to treat. In an attempt to help alleviate the more severe abdominal symptoms associated with IBS-C and CIC, healthcare providers have occasionally prescribed medications that have not been approved by the FDA for these indications, such as anti-depressant or antispasmodic agents.

Polyethylene glycol, or PEG (such as MiraLAX), and lactulose account for the majority of prescription laxative treatments. Both agents demonstrate an increase in stool frequency and consistency but do not improve bloating or abdominal discomfort. Clinical trials and product labels document several adverse effects with PEG and lactulose, including exacerbation of bloating, cramping and, according to L.E. Brandt in a study published in 2005 in the *American Journal of Gastroenterology*, up to a 40% incidence of diarrhea. Overall, up to 75% of patients taking prescription laxatives report not being completely satisfied with the predictability of when they will experience a bowel movement on treatment, and 50% were not completely satisfied with relief of the multiple symptoms associated with constipation, according to the Johanson study.

In 2002, the FDA approved Zelnorm, the first new drug for the treatment of IBS-C, and in 2004, Zelnorm was approved for the treatment of CIC. Zelnorm is a serotonin 5-HT<sub>4</sub> receptor agonist, with a mechanism of action completely separate and distinct from the mechanism of action underlying linaclotide's activity. As a newly available treatment option to potentially address some of the symptoms beyond the scope of laxatives and fiber, Zelnorm achieved great success in raising patient and physician awareness of IBS-C and CIC. During the five years that Zelnorm was promoted, total prescriptions in the category grew three fold, and in 2006, there were more than 16 million total prescriptions written for treating patients with IBS-C and CIC, according to IMS Health. In 2006, Zelnorm total sales were approximately \$561 million. In 2007, Zelnorm was withdrawn from the market by its manufacturer due to an analysis that found a higher chance of heart attack, stroke and chest pain in patients treated with Zelnorm as compared to placebo. Despite modest effectiveness relieving abdominal pain (1% to 10% of patients responding to treatment as compared to placebo) and bloating (4% to 11% of patients responding to treatment as compared to placebo) as described on the Zelnorm product label, Zelnorm succeeded in establishing a symptom-based approach highlighting the need to recognize and treat, on a chronic basis, both the abdominal and constipation symptoms afflicting these patients.

Until the launch of LINZESS, the only available prescription therapy for IBS-C and CIC in the U.S. was Amitiza, which was approved for the treatment of CIC in 2006, and for the treatment of IBS-C in 2008. Amitiza sales have been modest in comparison to Zelnorm sales prior to its withdrawal from the market, according to IMS Health.

The most recent entrant to the CIC marketplace, solely in Europe, is Resolor (prucalopride). Resolor was approved in 2009 by the EMA and is indicated for the treatment of CIC in women for whom laxatives have failed to provide adequate relief. Resolor, which is marketed by Shire-Movetis, is a serotonin 5-HT<sub>4</sub> receptor agonist like Zelnorm. Resolor was launched in other European nations in 2012 and is currently in Phase 3 trials as a potential treatment for CIC in males and for opioid induced constipation (OIC). Shire has acquired rights to develop and commercialize prucalopride in the U.S. for the CIC indication. The U.S. patent covering the composition of matter expires in 2015.

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**Manufacturing and Supply**

We currently manage our global supply and distribution of linaclotide through a combination of contract manufacturers and our collaboration partners. It is our objective to produce safe and effective medicine on a worldwide basis, with redundancy built into each critical step of the process. We believe that we have sufficient in-house expertise to manage our manufacturing and supply chain network to meet worldwide demand.

Linaclotide production consists of three phases – manufacture of the active pharmaceutical ingredient, or API (sometimes referred to as drug substance), manufacture of drug product and manufacture of finished goods. We have entered into arrangements with multiple third party manufacturers for the production of linaclotide API, as it is a fundamental objective of our strategy to establish redundancy at all critical steps in the supply chain. Our current API contract manufacturers include PolyPeptide Laboratories, Inc. and Polypeptide Laboratories (SWEDEN) AB, and Corden Pharma Colorado, Inc. (formerly known as Roche Colorado Corporation). We continue to pursue additional commercial supply agreements with additional manufacturers for linaclotide API for U.S. and worldwide use. We believe our commercial suppliers will have the capabilities to produce linaclotide API in accordance with current good manufacturing practices, or GMP, on a sufficient scale to meet our commercial needs.

Each of Forest, Almirall and Astellas is responsible for drug product manufacturing of linaclotide and making it into finished goods (including bottling and packaging) for its respective territory, and to distribute the finished goods to wholesalers. We are responsible for drug product manufacturing and finished goods for China as part of our collaboration with AstraZeneca. We also have an agreement with another independent third party to provide a second source of drug product manufacturing of linaclotide for our partnered territories.

Prior to linaclotide, there was no precedent for long-term room temperature shelf storage formulation for an orally dosed peptide to be produced in millions of capsules per year. We believe our efforts to date have led to a formulation that is both cost effective and able to meet the stability requirements for commercial pharmaceutical products. Our work in this area has created an opportunity to seek additional intellectual property protection around the linaclotide program. In conjunction with Forest, we have filed patent applications worldwide to protect the current commercial formulation of linaclotide as well as related formulations. If these patents are issued, they would expire in 2029 or later in the U.S. and foreign jurisdictions and would be eligible for potential patent term adjustments or patent term extensions in countries where such extensions may be available.

**Sales and Marketing**

For the foreseeable future, we intend to develop and commercialize our drugs in the U.S. alone or with partners, and will evaluate our commercialization opportunities for other territories. In executing our strategy, our goal is to retain significant worldwide control over the development process and commercialization of our products, by playing an active role in their commercialization or finding partners who share our vision, values, culture and processes.

We are building our commercial organization around linaclotide, with the intent to leverage this organization for future products. To date, we have established a high-quality commercial organization dedicated to bringing innovative, highly-valued healthcare solutions to our customers, including patients, payors, and healthcare providers.



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We are coordinating efforts with all of our partners to ensure that we launch an integrated, global linaclotide brand. By leveraging the knowledge-base and expertise of our experienced commercial team and the insights of each of our linaclotide commercialization partners, we continually improve our collective marketing strategies.

*Maximizing the Value of Linaclotide in the U.S.*

Our objective is to establish LINZESS as the prescription product of choice for both IBS-C and CIC. We, together with our U.S. commercialization partner Forest, plan to build awareness that patients suffer from multiple, highly bothersome symptoms of IBS-C or CIC, and that these symptoms can dramatically impair sufferers' quality of life.

Forest has demonstrated the ability to successfully launch innovative products, penetrate primary care markets and drive the growth of multiple brands in highly competitive markets. Forest brings large and experienced sales, national accounts, trade relations, operations and management teams providing ready access to primary care offices and key managed care accounts. We have built our own sales force and commercial presence to complement Forest's existing primary care expertise. We have strong alignment with Forest and a shared vision for LINZESS. The combined Ironwood and Forest marketing team possesses a deep understanding of gastroenterology and primary care customers, and this knowledge is being utilized to develop a compelling medical message and promotional campaign in the hope of delivering an effective treatment for patients suffering with the defining symptoms of IBS-C or CIC.

In order to maximize the value of LINZESS in the U.S., we and Forest are focusing our initial commercialization efforts in the following areas:

Physician education: Our physician education plan encompasses efforts to reach out to over 80,000 of the highest prescribing primary care physicians and gastroenterologists in the U.S., with the goal of helping them identify appropriate patients, educating them on the clinical profile of LINZESS, and enabling them to assess the clinical benefits of LINZESS.

Patient education: Our patient education plan encompasses efforts to reach out to IBS-C and CIC patients through traditional and digital channels to enable them to more effectively communicate symptoms and treatment history to their physicians. Based on our research to date, these patients are high information seekers, pursuing multiple information channels in order to learn about the disease state and potential therapies in order to have productive conversations with their doctors.

Payor value proposition: Based on the existing burden of illness associated with IBS-C and CIC, and the efficacy and safety profile of LINZESS that was demonstrated through its clinical development program, we and Forest are providing a strong value proposition to governmental authorities, private health insurers and other third-party payors. We understand that sufficient access and reasonable reimbursement are essential in order to optimize the commercial potential of LINZESS.

*Maximizing the Value of Linaclotide Outside the U.S.*

We have out-licensed commercialization rights for Canada and Mexico to Forest, Europe to Almirall and Japan, South Korea, Taiwan, the Philippines and Indonesia to Astellas. In September 2012, Forest sublicensed the commercialization rights in Mexico to Almirall. We have also partnered with AstraZeneca to co-develop and co-commercialize linaclotide in China, Hong Kong and Macau.

Almirall provides access to the highest potential European markets with an established direct presence in each of the United Kingdom, Italy, France, Germany and Spain, and also has a presence in Austria, Belgium, the Nordics, Poland, Portugal and Switzerland. Almirall plans to coordinate sales and

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marketing efforts from its central office in an effort to ensure consistency of the overall brand strategy and objectively assess performance. Almirall's knowledge of the local markets should help to facilitate regulatory access, reimbursement and market penetration through a customized approach to implementing promotional and selling campaigns in the E.U.

Astellas is one of Japan's largest pharmaceutical companies and has top commercial capabilities in both primary care and specialty categories throughout Asia. Their demonstrated ability to market innovative medicines and their growing gastrointestinal franchise in Japan make them an ideal partner for Ironwood.

AstraZeneca is a world leader in gastrointestinal disease medicine and operates in over 100 countries with a growing presence in emerging markets, including China where they have significant commercial and research and development capabilities. Based on our interactions with AstraZeneca, we believe that we are strongly aligned with our vision for linaclotide in this region.

We have retained all rights to linaclotide outside of the territories discussed above and we continue to evaluate partnership opportunities in those unpartnered regions.

**Pipeline Strategy**

Patients shape our business, so we seek to incorporate their influence into our drug-making process, from discovery through commercialization, in an effort to better understand and address their needs. We invest significant effort defining and refining our R&D process and teaching internally our approach to drug-making. We favor programs with early decision points, well validated targets, predictive nonclinical models, initial chemical leads and clear paths to approval, all in the context of a target product profile that can address significant unmet or underserved clinical needs. We emphasize data-driven decision making, strive to advance or terminate projects early based on clearly defined go/no go criteria, prioritize programs at all stages and fluidly allocate our capital to the most promising programs. We continue to work diligently to ensure this disciplined approach is ingrained in our culture and processes and expect that our research productivity will continue to improve as our team gains more experience and capabilities. Moreover, we hope that as our passion and style of drug-making becomes better validated and more widely known, we will be able to attract additional like-minded researchers to join our cause.

To date, almost all of our product candidates have been discovered internally. We believe our discovery team has created a number of promising candidates over the past few years and has developed an extensive intellectual property estate in each of these areas.

In addition we have in-licensed, and are actively seeking to identify additional, attractive external opportunities. We utilize the same critical filters for investment when evaluating external programs as we do with our own, internally-discovered candidates.

**Pipeline**

We have ongoing efforts to identify product candidates that strengthen our pipeline. Linaclotide is our only product candidate that has demonstrated clinical proof of concept. We have several early development candidates in multiple therapeutic areas, including gastrointestinal disease, CNS disorders and allergic conditions. We are also conducting discovery research in the afore-mentioned therapeutic areas, as well as in the area of cardiovascular disease.

**Patents and Proprietary Rights**

We actively seek to protect the proprietary technology that we consider important to our business, including pursuing patents that cover our products and compositions, their methods of use and the processes for their manufacture, as well as any other relevant inventions and improvements that are

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commercially important to the development of our business. We also rely on trade secrets that may be important to the development of our business.

Our success will depend significantly on our ability to obtain and maintain patent and other proprietary protection for the technology, inventions and improvements we consider important to our business; defend our patents; preserve the confidentiality of our trade secrets; and operate without infringing the patents and proprietary rights of third parties.

*Linacotide and GC-C Patent Portfolio*

Our linacotide patent portfolio is currently composed of eight issued U.S. patents, three granted European patents (each of which has been validated in 31 European countries and in Hong Kong), a granted Japanese patent, 15 issued patents in other foreign jurisdictions, and numerous pending provisional, U.S. non-provisional, foreign and PCT patent applications. We own all of the issued patents and own or jointly own all of the pending applications.

The issued U.S. patents, which will expire between 2024 and 2028, contain claims directed to the linacotide molecule, pharmaceutical compositions thereof, methods of using linacotide to treat gastrointestinal disorders and processes for making the molecule. If our pending patent application covering the current commercial formulation of linacotide is allowed, it will expire in August 2029 or later, based upon a patent term adjustment. The granted European patents, which will expire in 2024, contain claims directed to the linacotide molecule, pharmaceutical compositions thereof and uses of linacotide to prepare medicaments for treating gastrointestinal disorders. The pending provisional, U.S. non-provisional, foreign and PCT applications contain claims directed to linacotide and related molecules, pharmaceutical formulations thereof, methods of using linacotide to treat various diseases and disorders and processes for making the molecule. These patent applications, if issued, will expire between 2024 and 2032.

The patent term of a patent that covers an FDA-approved drug is also eligible for patent term extension, which permits patent term restoration as compensation for some of the patent term lost during the FDA regulatory review process. The Hatch-Waxman Act permits a patent term extension of a single patent applicable to an approved drug for up to five years beyond the expiration of the patent but the extension cannot extend the remaining term of a patent beyond a total of 14 years from the date of product approval by the FDA. Similar provisions are available in Europe and certain other foreign jurisdictions to extend the term of a patent that covers an approved drug. We have applied to extend the patent term of U.S. Patent 7,304,036, which covers linacotide and methods of use thereof. If granted, the patent term of this patent will be extended to August 30, 2026, 14 years from the date of linacotide's approval by the FDA.

In addition to the patents and patent applications related to linacotide, we currently have two issued U.S. patents, a granted European patent, and a number of pending provisional, U.S. non-provisional, foreign and PCT applications directed to other GC-C agonist molecules, pharmaceutical compositions and formulations thereof, methods of using these molecules to treat various diseases and disorders and processes of synthesizing the molecules. The issued U.S. patents and European patent will expire in 2024. The patent applications, if issued, will expire between 2024 and 2030.

*Additional Intellectual Property*

Our pipeline patent portfolio is currently composed of five issued U.S. patents; five issued patents in other foreign jurisdictions; and numerous pending provisional, U.S. non-provisional, foreign and PCT patent applications. We own all of the issued patents and own or jointly own all of the pending applications. The issued U.S. patents expire in 2022, 2024 and 2026. The foreign issued patents expire in 2024 and 2026. The pending patent applications, if issued, will expire between 2024 and 2032. We

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are also the licensee of a number of issued patents and pending applications that expire or will expire between 2027 and 2032.

The term of individual patents depends upon the legal term of the patents in the countries in which they are obtained. In most countries in which we file, the patent term is 20 years from the date of filing the non-provisional application. In the U.S., a patent's term may be lengthened by patent term adjustment, which compensates a patentee for administrative delays by the U.S. Patent and Trademark Office in granting a patent, or may be shortened if a patent is terminally disclaimed over an earlier-filed patent. We also expect to apply for patent term extensions for some of our patents once issued, depending upon the length of clinical trials and other factors involved in the submission of a new drug application, or NDA.

**Government Regulation**

In the U.S., pharmaceutical products are subject to extensive regulation by the FDA. The Federal Food, Drug, and Cosmetic Act and other federal and state statutes and regulations, govern, among other things, the research, development, testing, manufacture, storage, recordkeeping, approval, labeling, promotion and marketing, distribution, FDA post marketing requirements and assessments, post-approval monitoring and reporting, sampling, and import and export of pharmaceutical products. The FDA has very broad enforcement authority and failure to abide by applicable regulatory requirements can result in administrative or judicial sanctions being imposed on us, including warning letters, refusals of government contracts, clinical holds, civil penalties, injunctions, restitution, disgorgement of profits, recall or seizure of products, total or partial suspension of production or distribution, withdrawal of approval, refusal to approve pending applications, and criminal prosecution.

***FDA Approval Process***

We believe that our product candidates will be regulated by the FDA as drugs. No manufacturer may market a new drug until it has submitted an NDA to the FDA, and the FDA has approved it. The steps required before the FDA may approve an NDA generally include:

nonclinical laboratory tests and animal tests conducted in compliance with FDA's good laboratory practice requirements;

development, manufacture and testing of active pharmaceutical product and dosage forms suitable for human use in compliance with current GMP;

the submission to the FDA of an investigational new drug application, or IND for human clinical testing, which must become effective before human clinical trials may begin;

adequate and well-controlled human clinical trials to establish the safety and efficacy of the product for its specific intended use(s);

the submission to the FDA of an NDA; and

FDA review and approval of the NDA.

Nonclinical tests include laboratory evaluation of the product candidate, as well as animal studies to assess the potential safety and efficacy of the product candidate. The conduct of the nonclinical tests must comply with federal regulations and requirements including good laboratory practices. We must submit the results of the nonclinical tests, together with manufacturing information, analytical data and a proposed clinical trial protocol to the FDA as part of an IND, which must become effective before we may commence human clinical trials. The IND will automatically become effective 30 days after its receipt by the FDA, unless the FDA raises concerns or questions before that time about the conduct of the proposed trial. In such a case, we must work with the FDA to resolve any outstanding concerns before the clinical trial can proceed. We cannot be sure that submission of an IND will result in the

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FDA allowing clinical trials to begin, or that, once begun, issues will not arise that will cause us or FDA to suspend or terminate such trials. The study protocol and informed consent information for patients in clinical trials must also be submitted to an institutional review board for approval. An institutional review board may also require the clinical trial at the site to be halted, either temporarily or permanently, for failure to comply with the institutional review board's requirements or if the trial has been associated with unexpected serious harm to subjects. An institutional review board may also impose other conditions on the trial.

Clinical trials involve the administration of the product candidate to humans under the supervision of qualified investigators, generally physicians not employed by or under the trial sponsor's control. Clinical trials are typically conducted in three sequential phases, though the phases may overlap or be combined. In Phase 1, the initial introduction of the drug into healthy human subjects, the drug is usually tested for safety (adverse effects), dosage tolerance and pharmacologic action, as well as to understand how the drug is taken up by and distributed within the body. Phase 2 usually involves studies in a limited patient population (individuals with the disease under study) to:

evaluate preliminarily the efficacy of the drug for specific, targeted conditions;

determine dosage tolerance and appropriate dosage as well as other important information about how to design larger Phase 3 trials; and

identify possible adverse effects and safety risks.

Phase 3 trials generally further evaluate clinical efficacy and test for safety within an expanded patient population. The conduct of clinical trials is subject to extensive regulation, including compliance with good clinical practice regulations and guidance.

The FDA may order the temporary or permanent discontinuation of a clinical trial at any time or impose other sanctions if it believes that the clinical trial is not being conducted in accordance with FDA requirements or presents an unacceptable risk to the clinical trial patients. We may also suspend clinical trials at any time on various grounds.

The results of the nonclinical and clinical studies, together with other detailed information, including the manufacture and composition of the product candidate, are submitted to the FDA in the form of an NDA requesting approval to market the drug. FDA approval of the NDA is required before marketing of the product may begin in the U.S. If the NDA contains all pertinent information and data, the FDA will "file" the application and begin review. The review process, however, may be extended by FDA requests for additional information, nonclinical or clinical studies, clarification regarding information already provided in the submission, or submission of a risk evaluation and mitigation strategy. The FDA may refer an application to an advisory committee for review, evaluation and recommendation as to whether the application should be approved. The FDA is not bound by the recommendations of an advisory committee, but it considers such recommendations carefully when making decisions. Before approving an NDA, the FDA will typically inspect the facilities at which the product candidate is manufactured and will not approve the product candidate unless GMP compliance is satisfactory. FDA also typically inspects facilities responsible for performing animal testing, as well as clinical investigators who participate in clinical trials. The FDA may refuse to approve an NDA if applicable regulatory criteria are not satisfied, or may require additional testing or information. The FDA may also limit the indications for use and/or require post-marketing testing and surveillance to monitor the safety or efficacy of a product. Once granted, product approvals may be withdrawn if compliance with regulatory standards is not maintained or problems are identified following initial marketing.

The testing and approval process requires substantial time, effort and financial resources, and our product candidates may not be approved on a timely basis, if at all. The time and expense required to perform the clinical testing necessary to obtain FDA approval for regulated products can frequently

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exceed the time and expense of the research and development initially required to create the product. The results of nonclinical studies and initial clinical trials of our product candidates are not necessarily predictive of the results from large-scale clinical trials, and clinical trials may be subject to additional costs, delays or modifications due to a number of factors, including difficulty in obtaining enough patients, investigators or product candidate supply. Failure by us or our collaborators, licensors or licensees, including Forest, Almirall, Astellas and AstraZeneca, to obtain, or any delay in obtaining, regulatory approvals or in complying with requirements could adversely affect the commercialization of product candidates and our ability to receive product or royalty revenues.

***Hatch-Waxman Act***

The Hatch-Waxman Act established abbreviated approval procedures for generic drugs. Approval to market and distribute these drugs is obtained by submitting an Abbreviated New Drug Application, or ANDA, with the FDA. The application for a generic drug is "abbreviated" because it need not include nonclinical or clinical data to demonstrate safety and effectiveness and may instead rely on the FDA's previous finding that the brand drug, or reference drug, is safe and effective. In order to obtain approval of an ANDA, an applicant must, among other things, establish that its product is bioequivalent to an existing approved drug and that it has the same active ingredient(s), strength, dosage form, and the same route of administration. A generic drug is considered bioequivalent to its reference drug if testing demonstrates that the rate and extent of absorption of the generic drug is not significantly different from the rate and extent of absorption of the reference drug when administered under similar experimental conditions.

The Hatch-Waxman Act also provides incentives by awarding, in certain circumstances, certain legal protections from generic competition. This protection comes in the form of a non-patent exclusivity period, during which the FDA may not accept, or approve, an application for a generic drug, whether the application for such drug is submitted through an ANDA or a through another form of application, known as a 505(b)(2) application.

The Hatch-Waxman Act grants five years of exclusivity when a company develops and gains NDA approval of a new chemical entity that has not been previously approved by the FDA. This exclusivity provides that the FDA may not accept an ANDA or 505(b)(2) application for five years after the date of approval of previously approved drug, or four years in the case of an ANDA or 505(b)(2) application that challenges a patent claiming the reference drug (see discussion below regarding patent challenges). The Hatch-Waxman Act also provides three years of exclusivity for approved applications for drugs that are not new chemical entities, if the application contains the results of new clinical investigations (other than bioavailability studies) that were essential to approval of the application. Examples of such applications include applications for new indications, dosage forms (including new drug delivery systems), strengths, or conditions of use for an already approved product. This three-year exclusivity period only protects against FDA approval of ANDAs and 505(b)(2) applications for generic drugs that include the innovation that required new clinical investigations that were essential to approval; it does not prohibit the FDA from accepting or approving ANDAs or 505(b)(2) NDAs for generic drugs that do not include such an innovation.

*Paragraph IV Certifications.* Under the Hatch-Waxman Act, NDA applicants and NDA holders must provide information about certain patents claiming their drugs for listing in the FDA publication, "Approved Drug Products with Therapeutic Equivalence Evaluations," also known as the "Orange Book." When an ANDA or 505(b)(2) application is submitted, it must contain one of several possible certifications regarding each of the patents listed in the Orange Book for the reference drug. A certification that a listed patent is invalid or will not be infringed by the sale of the proposed product is called a "Paragraph IV" certification.

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Within 20 days of the acceptance by the FDA of an ANDA or 505(b)(2) application containing a Paragraph IV certification, the applicant must notify the NDA holder and patent owner that the application has been submitted, and provide the factual and legal basis for the applicant's opinion that the patent is invalid or not infringed. The NDA holder or patent holder may then initiate a patent infringement suit in response to the Paragraph IV notice. If this is done within 45 days of receiving notice of the Paragraph IV certification, a one-time 30-month stay of the FDA's ability to approve the ANDA or 505(b)(2) application is triggered. The FDA may approve the proposed product before the expiration of the 30-month stay only if a court finds the patent invalid or not infringed, or if the court shortens the period because the parties have failed to cooperate in expediting the litigation.

*Patent Term Restoration.* Under the Hatch-Waxman Act, a portion of the patent term lost during product development and FDA review of an NDA or 505(b)(2) application is restored if approval of the application is the first permitted commercial marketing of a drug containing the active ingredient. The patent term restoration period is generally one-half the time between the effective date of the IND and the date of submission of the NDA, plus the time between the date of submission of the NDA and the date of FDA approval of the product. The maximum period of patent term extension is five years, and the patent cannot be extended to more than 14 years from the date of FDA approval of the product. Only one patent claiming each approved product is eligible for restoration and the patent holder must apply for restoration within 60 days of approval. The U.S. Patent and Trademark Office, in consultation with the FDA, reviews and approves the application for patent term restoration.

***Other Regulatory Requirements***

After approval, drug products are subject to extensive continuing regulation by the FDA, which include company obligations to manufacture products in accordance with GMP, maintain and provide to the FDA updated safety and efficacy information, report adverse experiences with the product, keep certain records and submit periodic reports, obtain FDA approval of certain manufacturing or labeling changes, and comply with FDA promotion and advertising requirements and restrictions. Failure to meet these obligations can result in various adverse consequences, both voluntary and FDA-imposed, including product recalls, withdrawal of approval, restrictions on marketing, and the imposition of civil fines and criminal penalties against the NDA holder. In addition, later discovery of previously unknown safety or efficacy issues may result in restrictions on the product, manufacturer or NDA holder.

We and any manufacturers of our products are required to comply with applicable FDA manufacturing requirements contained in the FDA's GMP regulations. GMP regulations require among other things, quality control and quality assurance as well as the corresponding maintenance of records and documentation. The manufacturing facilities for our products must meet GMP requirements to the satisfaction of the FDA pursuant to a pre-approval inspection before we can use them to manufacture our products. We and any third-party manufacturers are also subject to periodic inspections of facilities by the FDA and other authorities, including procedures and operations used in the testing and manufacture of our products to assess our compliance with applicable regulations.

With respect to post-market product advertising and promotion, the FDA imposes a number of complex regulations on entities that advertise and promote pharmaceuticals, which include, among others, standards for direct-to-consumer advertising, prohibitions on promoting drugs for uses or in patient populations that are not described in the drug's approved labeling (known as "off-label use"), and principles governing industry-sponsored scientific and educational activities. Failure to comply with FDA requirements can have negative consequences, including adverse publicity, enforcement letters from the FDA, mandated corrective advertising or communications with doctors or patients, and civil or criminal penalties. Although physicians may prescribe legally available drugs for off-label uses, manufacturers may not market or promote such off-label uses.

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Changes to some of the conditions established in an approved application, including changes in indications, labeling, or manufacturing processes or facilities, require submission and FDA approval of a new NDA or NDA supplement before the change can be implemented. An NDA supplement for a new indication typically requires clinical data similar in type and quality to the clinical data supporting the original application for the original indication, and the FDA uses similar procedures and actions in reviewing such NDA supplements as it does in reviewing NDAs.

Adverse event reporting and submission of periodic reports is required following FDA approval of an NDA. The FDA also may require post-marketing testing, known as Phase 4 testing, risk minimization action plans, and surveillance to monitor the effects of an approved product or to place conditions on an approval that restrict the distribution or use of the product.

Outside the U.S., our and our collaborators' abilities to market a product are contingent upon receiving marketing authorization from the appropriate regulatory authorities. The requirements governing marketing authorization, pricing and reimbursement vary widely from jurisdiction to jurisdiction. At present, foreign marketing authorizations are applied for at a national level, although within the E.U. registration procedures are available to companies wishing to market a product in more than one E.U. member state.

**Employees**

As of December 31, 2012, we had 530 employees. Approximately 60 were scientists engaged in discovery research, 146 were in our drug development organization, 205 were in our sales and commercial team, and 119 were in general and administrative functions. None of our employees are represented by a labor union, and we consider our employee relations to be good.

**Executive Officers of the Registrant**

The following table sets forth the name, age and position of each of our executive officers as of February 11, 2013:

<b>Name</b>	<b>Age</b>	<b>Position</b>
Peter M. Hecht, Ph.D.	49	Chief Executive Officer, Director
Michael J. Higgins	50	Senior Vice President, Chief Operating Officer and Chief Financial Officer
Mark G. Currie, Ph.D.	58	Senior Vice President, Chief Scientific Officer and President of R&D
Thomas A. McCourt	55	Senior Vice President, Marketing and Sales and Chief Commercial Officer

**Peter M. Hecht** has served as our chief executive officer and a director since our founding in 1998. Prior to founding Ironwood, Dr. Hecht was a research fellow at Whitehead Institute for Biomedical Research. Dr. Hecht earned a B.S. in mathematics and an M.S. in biology from Stanford University, and holds a Ph.D. in molecular biology from the University of California at Berkeley.



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**Michael J. Higgins** serves as our senior vice president, chief operating officer and chief financial officer, and has led our finance, operations and strategy efforts since joining us in 2003. Prior to 2003, Mr. Higgins held a variety of senior business positions at Genzyme Corporation, including vice president of corporate finance. Mr. Higgins earned a B.S. from Cornell University and an M.B.A. from the Amos Tuck School of Business Administration at Dartmouth College.

**Mark G. Currie** serves as our senior vice president, chief scientific officer and president of research & development, and has led our research & development efforts since joining us in 2002. Prior to joining Ironwood, Dr. Currie directed cardiovascular and central nervous system disease research as vice president of discovery research at Sepracor Inc. Previously, Dr. Currie initiated, built and led discovery pharmacology and also served as director of arthritis and inflammation at Monsanto Company. Dr. Currie earned a B.S. in biology from the University of South Alabama and holds a Ph.D. in cell biology from the Bowman-Gray School of Medicine of Wake Forest University.

**Thomas A. McCourt** has served as our senior vice president of marketing and sales and chief commercial officer since joining Ironwood in 2009. Prior to joining Ironwood, Mr. McCourt led the U.S. brand team for denosumab at Amgen Inc. from April 2008 to August 2009. Prior to that, Mr. McCourt was with Novartis AG from 2001 to 2008, where he directed the launch and growth of Zelnorm for the treatment of patients with IBS-C and CIC and held a number of senior commercial roles, including vice president of strategic marketing and operations. Mr. McCourt was also part of the founding team at Astra Merck Inc., leading the development of the medical affairs and science liaison group and then serving as brand manager for Prilosec and NEXIUM®. Mr. McCourt has a degree in pharmacy from the University of Wisconsin.

**Available Information**

You may obtain free copies of our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, and amendments to those reports, as soon as reasonably practicable after they are electronically filed or furnished to the SEC, on the Investors section of our website at [www.ironwoodpharma.com](http://www.ironwoodpharma.com) or by contacting our Investor Relations department at (617) 374-5082. The contents of our website are not incorporated by reference into this report and you should not consider information provided on our website to be part of this report.

**Item 1A. Risk Factors**

*In addition to the other information in this Annual Report on Form 10-K, any of the factors described below could significantly and negatively affect our business, financial condition, results of operations or prospects. The trading price of our Class A common stock may decline due to these risks.*

**Risks Related to Our Business and Industry**

***We are highly dependent on the commercial success of LINZESS in the U.S. for the foreseeable future; we may be unable to attain profitability and positive cash flow from operations.***

On August 30, 2012, the FDA approved LINZESS as a once-daily treatment for adult men and women suffering from IBS-C or CIC. LINZESS is the first FDA-approved GC-C agonist. We and our U.S. partner, Forest, began commercial sale of LINZESS in the U.S. during December 2012. The commercial success of LINZESS will depend on a number of factors, including:

the effectiveness of LINZESS as a treatment for adult patients with IBS-C and CIC;

the effectiveness of the sales, managed markets and marketing efforts by us and Forest;

the adoption of LINZESS by physicians, which depends on whether physicians view it as a safe and effective treatment for adult patients with IBS-C and CIC;

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our success in educating and activating IBS-C and CIC patients to enable them to more effectively communicate their symptoms and treatment history to their physicians;

our ability to both secure adequate reimbursement for and optimize patient access to LINZESS by providing third party payors with a strong value proposition based on the existing burden of illness associated with IBS-C and CIC, and the benefits of LINZESS;

the effectiveness of our and our partners' sales and marketing organizations and our partners' distribution networks;

the occurrence of any side effects, adverse reactions or misuse, or any unfavorable publicity in these areas, associated with LINZESS; and

the development or commercialization of competing products or therapies for the treatment of IBS-C or CIC, or their symptoms.

Our revenues from the commercialization of LINZESS are subject to these factors, and therefore may be unpredictable from quarter-to-quarter. Ultimately, we may never generate sufficient revenues from LINZESS to reach or maintain profitability or sustain our anticipated levels of operations.

***Linacotide may cause undesirable side effects or have other properties that could limit its commercial potential.***

The most common adverse reactions in IBS-C and CIC patients in the placebo-controlled trials that supported the U.S. NDA approval of LINZESS were diarrhea, abdominal pain, flatulence and abdominal distension, with diarrhea being the most common. Severe diarrhea was reported in 2% of the linaclotide-treated patients, and the incidence of diarrhea was similar between the IBS-C and CIC populations in these trials. If we or others identify previously unknown side effects, if known side effects are more frequent or severe than in the past, or if we or others detect unexpected safety signals for LINZESS or any products perceived to be similar to LINZESS, then in any of these circumstances:

sales of LINZESS may be modest;

regulatory approvals for linaclotide may be restricted or withdrawn;

we may decide to, or be required to, send product warning letters or field alerts to physicians, pharmacists and hospitals;

reformulation of the product, additional nonclinical or clinical studies, changes in labeling or changes to or reapprovals of manufacturing facilities may be required;

our reputation in the marketplace may suffer; and

government investigations or lawsuits, including class action suits, may be brought against us.

Any of the above occurrences would harm or prevent sales of LINZESS, increase our expenses and impair our ability to successfully commercialize LINZESS.

Furthermore, now that LINZESS is commercially available, it will be used in a wider population and in a less rigorously controlled environment than in clinical studies. As a result, regulatory authorities, healthcare practitioners, third party payers or patients may perceive or conclude that the use of LINZESS is associated with serious adverse effects, undermining our commercialization efforts.

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Finally, the FDA-approved label for LINZESS contains a boxed warning about its use in pediatric patients. LINZESS is contraindicated in patients up to 6 years of age and physicians are cautioned to avoid use in patients 6 through 17 years of age. This warning resulted from nonclinical data from studies in young juvenile mice approximately equivalent to human pediatric patients less than 2 years of age. We and Forest have established a nonclinical and clinical post-marketing plan with the FDA. The

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first step in the plan is to complete additional nonclinical studies to further understand the results of the earlier neonatal mouse study and to understand the tolerability of LINZESS in older juvenile mice. Until these studies are performed, we cannot initiate pediatric studies and may be precluded from ever being able to expand the indication to pediatrics depending on the results from these studies and the view of the FDA on whether the results support studying the safety and efficacy of LINZESS in pediatrics.

***We rely entirely on contract manufacturers and our collaboration partners to manufacture and distribute linaclotide. If they are unable to comply with applicable regulatory requirements, or experience manufacturing or distribution difficulties, or are unable to manufacture sufficient quantities to meet demand, our commercialization efforts may be materially harmed.***

We have no internal manufacturing or distribution capabilities. Instead, we rely on a combination of contract manufacturers and our partners to manufacture linaclotide API and final linaclotide drug product, and to distribute that drug product to third party purchasers. We have commercial supply agreements with independent third parties to manufacture the linaclotide API used to support all of our partnered and unpartnered territories. Each of Forest, Almirall and Astellas is responsible for drug product manufacturing of linaclotide and making it into finished goods (including bottling and packaging) for its respective territory, and to distribute the finished goods to wholesalers. We are responsible for drug product manufacturing and finished goods for China as part of our collaboration with AstraZeneca. We also have an agreement with another independent third party to serve as a second source of drug product manufacturing of linaclotide for our partnered territories. Among our drug product manufacturers, only Forest and Almirall have manufactured linaclotide on a commercial scale, and they only recently began commercial manufacture for their respective territories.

Each of our linaclotide API and drug product manufacturers must comply with current good manufacturing practices, or GMP, and other stringent regulatory requirements enforced by the FDA and foreign regulatory authorities in other jurisdictions. These requirements include, among other things, quality control, quality assurance and the maintenance of records and documentation, which occur in addition to our quality release of linaclotide API. Manufacturers of linaclotide may be unable to comply with these GMP requirements and with other regulatory requirements. We have little control over our manufacturers' or collaboration partners' compliance with these regulations and standards.

Our manufacturers may experience problems with their respective manufacturing and distribution techniques and processes, including for example, quality issues, including product specification and stability failures, quality procedural deviations, improper equipment installation or operation, utility failures, contamination and natural disasters. In addition, our API manufacturers acquire the raw materials necessary to make linaclotide API from a limited number of sources. Any delay or disruption in the availability of these raw materials or a change in raw material suppliers could result in production disruptions, delays or higher costs with consequent adverse effects on us.

The manufacture of pharmaceutical products requires significant expertise and capital investment, including the development of advanced manufacturing techniques and process controls. Manufacturers of pharmaceutical products often encounter difficulties in commercial production. These problems include difficulties with production costs and yields, quality control, including stability of the product and quality assurance testing, and shortages of qualified personnel, as well as compliance with federal, state and foreign regulations and the challenges associated with complex supply chain management. Even if our manufacturers do not experience problems and commercial manufacturing is achieved, their maximum manufacturing capacities may be insufficient to meet commercial demand. Finding alternative manufacturers or adding additional manufacturers could take a significant amount of time and involve significant expense. New manufacturers would need to develop and implement the necessary production techniques and processes, which along with their facilities, would need to be inspected and approved by the regulatory authorities in each applicable territory.

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If our API or drug product manufacturers fail to adhere to applicable GMP or other regulatory requirements or experience manufacturing problems, we will suffer significant consequences, including product seizures or recalls, loss of product approval, fines and sanctions, reputational damage, shipment delays, inventory shortages, inventory write-offs and other product-related charges and increased manufacturing costs. If we experience any of these results, or if our manufacturers' maximum capacities are insufficient to meet demand, we may not be able to successfully commercialize linaclotide.

***We must work effectively and collaboratively with Forest to market and sell LINZESS in the U.S. in order for it to achieve its maximum commercial potential.***

We are working closely with Forest to implement our joint commercialization plan for LINZESS. The commercialization plan includes an agreed upon marketing campaign that targets the physicians who see patients who could benefit from LINZESS treatment and the adult men and women who suffer from IBS-C and CIC. It also includes an integrated call plan for our sales forces to optimize the education of specific gastroenterologists and primary care physicians on whom our and Forest's sales representatives call, and the frequency with which the representatives meet with them. We and Forest began implementing this call plan in the middle of December 2012.

In order to optimize the commercial potential of LINZESS, we and Forest must execute upon this commercialization plan effectively and efficiently. We and Forest worked with the FDA's Office of Prescription Drug Promotion, or OPDP, to finalize our marketing materials that were deployed upon commercial launch of LINZESS. We also built a high-quality, specialized national sales force to complement Forest's experienced and trained primary care sales force. In order to be effective, we and Forest must effectively use our marketing materials in a compliant way. Similarly, our and Forest's sales teams must promote LINZESS in a coordinated manner to ensure optimum physician access.

Now that LINZESS has launched, we and Forest must continually assess and modify our commercialization plan in a coordinated and integrated fashion in order to adapt to the promotional response. In addition, we and Forest must continue to focus and refine our marketing campaign to ensure a clear and understandable physician-patient dialogue around IBS-C, CIC and the potential for LINZESS as an appropriate therapy. Further, we and Forest must provide our sales forces with the highest quality support, guidance and oversight in order for them to continue to effectively promote LINZESS to gastroenterologists and primary care physicians. If we and Forest fail to perform these commercial functions in the highest quality manner, LINZESS will not achieve its maximum commercial potential.

***We are subject to uncertainty relating to pricing and reimbursement policies which, if not favorable for linaclotide, could hinder or prevent linaclotide's commercial success.***

Our ability to commercialize LINZESS in the U.S. successfully will depend in part on the coverage and reimbursement levels set by governmental authorities, private health insurers and other third-party payors. Third-party payors are increasingly challenging the effectiveness of and prices charged for medical products and services. We may not obtain adequate third-party coverage or reimbursement for LINZESS, or we may be required to sell LINZESS at an unprofitable price.

We expect that private insurers will consider the efficacy, cost effectiveness and safety of LINZESS in determining whether to approve reimbursement for LINZESS and at what level. Obtaining these approvals can be a time consuming and expensive process. Our business would be materially adversely affected if we do not receive approval for reimbursement of LINZESS from private insurers on a timely or satisfactory basis. Our business could also be adversely affected if private insurers, including managed care organizations, the Medicare program or other reimbursing bodies or payors limit the indications for which LINZESS will be reimbursed.

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We expect to experience pricing pressures in connection with the sale of linaclotide and our future products due to the healthcare reforms discussed below, as well as the trend toward programs aimed at reducing health care costs, the increasing influence of health maintenance organizations, the ongoing debates on reducing government spending and additional legislative proposals.

In some foreign countries, particularly Canada and the countries of Europe, the pricing and payment of prescription pharmaceuticals is subject to governmental control. In these countries, pricing negotiations with governmental authorities can take six to 12 months or longer after the receipt of regulatory approval and product launch. To obtain favorable reimbursement for the indications sought or pricing approval in some countries, we may be required to conduct a clinical trial that compares the cost-effectiveness of our products, including linaclotide, to other available therapies. In addition, in countries in which linaclotide is only approved therapy for a particular indication, such as Constella as the only product approved for the symptomatic treatment of moderate to severe IBS-C in adults in Europe, there may be disagreement as to what the most comparable product is, or if there even is one. Further, several European countries have implemented government measures to either freeze or reduce pricing of pharmaceutical products. Many third-party payors and governmental authorities also consider the price for which the same product is being sold in other countries to determine their own pricing and reimbursement strategy, so if linaclotide is priced low or gets limited reimbursement in a particular country, this could result in similarly low pricing and reimbursement in other countries. If reimbursement for our products is unavailable in any country in which reimbursement is sought, limited in scope or amount, or if pricing is set at unsatisfactory levels, our business could be materially harmed.

***If the pricing and reimbursement of Constella in the E.U. is low, our royalty revenues from Almirall based on sales of Constella will be adversely affected.***

In November 2012, the European Commission granted marketing authorization to Constella for the symptomatic treatment of moderate to severe IBS-C in adults. This approval followed the positive recommendation received from the European Committee for Medicinal Products for Human Use in September 2012. Almirall plans to launch Constella in certain E.U. countries in the first half of 2013.

The pricing and reimbursement strategy is a key component of Almirall's commercialization plan for Constella in the E.U. Reimbursement sources are different in each country, and each country may include a combination of distinct potential payers, including private insurance and governmental payers. Countries in the E.U. may restrict the range of medicinal products for which their national health insurance systems provide reimbursement and control the prices of medicinal products for human use. Our revenues may suffer if Almirall is unable to successfully and timely conclude reimbursement, price approval or funding processes and market Constella in key member states of the E.U., or if coverage and reimbursement for Constella is limited or reduced. If Almirall is not able to obtain coverage, pricing or reimbursement on acceptable terms or at all, or if such terms change in any countries in its territory, Almirall may not be able to, or may decide not to, sell Constella in such countries. Further, Almirall could sell Constella at a low price. Since we receive royalties on net sales of Constella in the E.U., which is correlated directly to the price at which Almirall sells Constella in the E.U., our royalty revenues could be limited should Almirall sell Constella at a low price or elect not to launch in a certain country within the EU.

***Because we work with partners to develop, manufacture and commercialize linaclotide, we are dependent upon third parties, and our relationships with those third parties, in our efforts to commercialize LINZESS and to obtain regulatory approval for, and to commercialize, linaclotide in our other partnered territories.***

Forest played a significant role in the conduct of the clinical trials for linaclotide and in the subsequent collection and analysis of data, and Forest holds the NDA for LINZESS. In addition, we are commercializing LINZESS in the U.S. with Forest. Forest is responsible for the further development, regulatory approval and commercialization of linaclotide in Canada and Mexico. Almirall

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holds the marketing authorization for Constella in the E.U. and is responsible for obtaining regulatory approval of linaclotide in the other countries in its territory. Astellas, our partner in Japan and certain other Asian countries, is responsible for completing the clinical programs and obtaining regulatory approval of linaclotide in its territory. We will co-develop and co-commercialize linaclotide in China, Hong Kong and Macau through our collaboration with AstraZeneca. Upon any approval, each of Almirall, Astellas and AstraZeneca is responsible for commercializing linaclotide in its respective territory, and each has agreed to use commercially reasonable efforts to do so. Each of our partners is responsible for reporting adverse event information from its territory to us. Finally, each of our partners, other than AstraZeneca, is responsible for drug product manufacturing of linaclotide and making it into finished goods (including bottling and packaging) for its respective territory. The integration of our efforts with our partners' efforts is subject to the uncertainty of the markets for pharmaceutical products in each partner's respective territories, and accordingly, these relationships must evolve to meet any new challenges that arise in those regions.

These integrated functions may not be carried out effectively and efficiently if we fail to communicate and coordinate with our partners, and vice versa. Our partnering strategy imposes obligations, risks and operational requirements on us as the central node in our global network of partners. If we do not effectively communicate with each partner and ensure that the entire network is making integrated and cohesive decisions focused on the global brand for linaclotide, linaclotide will not achieve its maximum commercial potential. As the holder of the global safety database for linaclotide, we are responsible for coordinating the safety surveillance and adverse event reporting efforts worldwide. If we are unsuccessful in doing so due to poor process, execution, oversight, communication or adjudication, then our and our partner's ability to obtain and maintain regulatory approval of linaclotide will be at risk.

Employees of our partners are not our employees, and we have limited ability to control the amount or timing of resources that they devote to linaclotide. If any of our partners fails to devote sufficient time and resources to linaclotide, or if its performance is substandard, it will delay the potential submission or approval of regulatory applications for linaclotide, as well as the manufacturing and commercialization of linaclotide in the particular territory. A material breach by any of our partners of our collaboration or license agreement with such partner, or a significant disagreement between us and a partner, could also delay the regulatory approval and commercialization of linaclotide, potentially lead to costly litigation, and could have a material adverse impact on our financial condition. Moreover, although we have non-compete restrictions in place with each of our partners, they may have relationships with other commercial entities, some of which may compete with us. If any of our partners assists our competitors, it could harm our competitive position.

***If any of our partners undergoes a change in control or in management, this may adversely affect our collaborative relationship or the timeline and likelihood of successfully launching LINZESS in the U.S. or achieving regulatory approval and commercialization of linaclotide in our other partnered territories.***

We work jointly and collaboratively with Forest, Almirall, Astellas and AstraZeneca on many aspects of the development, manufacturing and commercialization of linaclotide. In doing so, we have established relationships with several key members of the management teams of Forest, Almirall and Astellas in functional areas such as development, quality, regulatory, drug safety and pharmacovigilance, operations, marketing, sales, field operations and medical science. Although we just recently entered into the collaboration with AstraZeneca for the development and commercialization of linaclotide in China, an important factor in our choosing to partner with AstraZeneca was the depth and quality of their experience in this rapidly growing pharmaceutical market. The success of our collaborations is highly dependent on the resources, efforts and skills of our partners and their key employees. As we begin to launch LINZESS in the U.S., prepare for the launch of Constella in the E.U. and transition linaclotide from development to commercialization in other parts of the world, the

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drug's success becomes more dependent on us maintaining highly collaborative and well aligned partnerships. If a partner undergoes a change of control or a change of management, we will need to reestablish many of these relationships, and we will need to regain alignment of our development and commercialization strategy for linaclotide. Given the inherent uncertainty and disruption that arises in a change of control, we cannot be sure that we would be able to successfully execute these courses of action. Finally, any change of control or in management may result in a reprioritization of linaclotide within such partner's portfolio, or such partner may fail to maintain the financial or other resources necessary to continue supporting its portion of the development, manufacturing or commercialization of linaclotide.

If any of our partners undergoes a change of control and the acquirer either is unable to perform such partner's obligations under its collaboration or license agreement with us or has a product that competes with linaclotide that such acquirer does not divest, we have the right to terminate the collaboration or license agreement and reacquire that partner's rights with respect to linaclotide. If we elect to exercise these rights in such circumstances, we will need to either establish the capability to develop, manufacture and commercialize linaclotide in that partnered territory on our own or we will need to establish a relationship with a new partner. We have assembled a team of specialists in manufacturing, quality, sales, marketing, payor, pricing and field operation, and specialized medical scientists, who represent the functional areas necessary for a successful commercial launch of a high potential, gastrointestinal therapy and who support the commercialization of LINZESS in the U.S. If Forest was subject to a change of control that allowed us to continue LINZESS's commercialization in the U.S. on our own, and we chose to do so, we would need to enhance each of these functional aspects to replace the capabilities that Forest was previously providing to the collaboration. Any such transition might result in a period of reduced efficiency or performance by our operations and commercialization teams, which could adversely affect our ability to commercialize LINZESS.

Although many members of our global operations, commercial and medical affairs teams have strategic oversight of, and a certain level of involvement in, their functional areas globally, we do not have corresponding operational capabilities in these areas outside of the U.S. If Forest, Almirall, Astellas or AstraZeneca was subject to a change of control that allowed us to continue linaclotide's development or commercialization anywhere outside of the U.S. on our own, and we chose to do so rather than establishing a relationship with a new partner, we would need to build operational capabilities in the relevant territory. In any of these situations, the timeline and likelihood of achieving regulatory approval and, ultimately, the commercialization of linaclotide could be negatively impacted.

***Even though LINZESS has been approved by the FDA for the treatment of adults with IBS-C or CIC, it faces future post-approval development and regulatory requirements, which will present additional challenges.***

On August 30, 2012, the FDA approved LINZESS as a once-daily treatment for adult men and women suffering from IBS-C or CIC. LINZESS will be subject to ongoing FDA requirements governing the labeling, packaging, storage, advertising, promotion, recordkeeping and submission of safety and other post-market information.

LINZESS is contraindicated in pediatric patients up to 6 years of age based on nonclinical data from studies in neonatal mice approximately equivalent to human pediatric patients less than 2 years of age. Physicians are also instructed to avoid the use of LINZESS in pediatric patients 6 through 17 years of age based on this nonclinical data and the lack of clinical safety and efficacy data in pediatric patients. We and Forest have established a nonclinical and clinical post-marketing plan with the FDA to understand LINZESS's safety and efficacy in pediatric patients. The first nonclinical studies are to further understand the results of the neonatal mouse study and to understand the tolerability of LINZESS in older juvenile mice. We expect these nonclinical studies to be complete in 2013. We and Forest are also working with the FDA on a plan for clinical pediatric studies, which are contingent on the outcome of the nonclinical post marketing requirements.



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We and Forest have also committed to certain nonclinical and clinical studies aimed at understanding: (a) whether orally administered linaclotide can be detected in breast milk, (b) the potential for antibodies to be developed to linaclotide, and if so, (c) whether antibodies specific for linaclotide could have any therapeutic or safety implications. We expect to complete these studies over the next three to five years.

These post-approval requirements will impose burdens and costs on us. Failure to complete the required studies and meet our other post-approval commitments would lead to negative regulatory action at the FDA, which could include withdrawal of regulatory approval of LINZESS for the treatment of adults with IBS-C or CIC.

Manufacturers of drug products and their facilities are subject to continual review and periodic inspections by the FDA and other regulatory authorities for compliance with GMP regulations. If we or a regulatory agency discovers previously unknown problems with a product, such as adverse events of unanticipated severity or frequency, or problems with a facility where the product is manufactured, a regulatory agency may impose restrictions on that product or the manufacturer, including requiring implementation of a risk evaluation and mitigation strategy program, withdrawal of the product from the market or suspension of manufacturing. If we, our partners or the manufacturing facilities for LINZESS fail to comply with applicable regulatory requirements, a regulatory agency may:

issue warning letters or untitled letters;

impose civil or criminal penalties;

suspend or withdraw regulatory approval;

suspend any ongoing clinical trials;

refuse to approve pending applications or supplements to applications submitted by us;

impose restrictions on operations, including costly new manufacturing requirements; or

seize or detain products or require us to initiate a product recall.

***Even though LINZESS has been approved for marketing in the U.S. and Constella has been approved for marketing in the E.U., we or our collaborators may never receive approval to commercialize linaclotide in the other parts of the world.***

We have out-licensed the rights to develop and commercialize linaclotide in Canada and Mexico to Forest, in Europe to Almirall, and in Japan and certain other Asian countries to Astellas, and we will co-develop and co-commercialize linaclotide in China, Hong Kong and Macau with AstraZeneca. In the future, we may seek to commercialize linaclotide in foreign countries outside of these countries with other parties or by ourselves.

In order to market any products outside of the U.S., we or our partners must comply with numerous and varying regulatory requirements of other jurisdictions regarding safety and efficacy. Approval procedures vary among jurisdictions and can involve product testing and administrative review periods different from, and greater than, those in the U.S. and the E.U. Potential risks include that the regulatory authorities:

may not deem linaclotide safe and effective;

may not find the data from nonclinical studies and clinical trials sufficient to support approval;

may not approve of manufacturing processes and facilities;

may not approve linaclotide for any or all indications for which approval is sought;

may require significant warnings or restrictions on use to the product label for linaclotide; or

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may change their approval policies or adopt new regulations.

Regulatory approval in one jurisdiction does not ensure regulatory approval in another, but a failure or delay in obtaining regulatory approval in one jurisdiction may have a negative effect on the regulatory processes in others. If linaclotide is not approved for all indications or with the label requested, this would limit the uses of linaclotide and have an adverse effect on its commercial potential or require costly post-marketing studies.

***We face potential product liability exposure, and, if claims brought against us are successful, we could incur substantial liabilities.***

The use of our product candidates in clinical trials and the sale of marketed products expose us to product liability claims. If we do not successfully defend ourselves against product liability claims, we could incur substantial liabilities. In addition, regardless of merit or eventual outcome, product liability claims may result in:

decreased demand for approved products;

impairment of our business reputation;

withdrawal of clinical trial participants;

initiation of investigations by regulators;

litigation costs;

distraction of management's attention from our primary business;

substantial monetary awards to patients or other claimants;

loss of revenues; and

the inability to commercialize our product candidates.

We currently have product liability insurance coverage for the commercial sale of LINZESS and for the clinical trials of our product candidates which is subject to industry-standard terms, conditions and exclusions. Our insurance coverage may not be sufficient to reimburse us for expenses or losses associated with claims. Moreover, insurance coverage is becoming increasingly expensive, and, in the future, we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses. On occasion, large judgments have been awarded in lawsuits based on drugs that had unanticipated side effects. A successful product liability claim or series of claims could cause our stock price to decline and, if judgments exceed our insurance coverage, could decrease our cash and adversely affect our business.

***We may face competition in the IBS-C and CIC marketplace, and new products may emerge that provide different or better alternatives for treatment of gastrointestinal conditions.***

Linaclotide will compete globally with certain prescription therapies and over the counter products for the treatment of IBS-C and CIC, or their associated symptoms. The availability of prescription competitors and over the counter products for gastrointestinal conditions could limit the demand, and the price we are able to charge, for linaclotide unless we are able to differentiate linaclotide on the basis of its actual or perceived benefits. New developments, including the development of other drug technologies and methods of preventing the incidence of disease, occur in the pharmaceutical and medical technology industries at a rapid pace. These developments may render linaclotide obsolete or noncompetitive.

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We believe other companies are developing products which could compete with linaclotide, should they be approved by the FDA or foreign regulatory authorities. Currently, there are compounds in late

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stage development and other potential competitors are in earlier stages of development for the treatment of patients with either IBS-C or CIC. If our potential competitors are successful in completing drug development for their drug candidates and obtain approval from the FDA or foreign regulatory authorities, they could limit the demand for linaclotide.

Certain of our competitors have substantially greater financial, technical and human resources than us. Mergers and acquisitions in the pharmaceutical industry may result in even more resources being concentrated in our competitors. Competition may increase further as a result of advances made in the commercial applicability of technologies and greater availability of capital for investment in these fields.

***We will incur significant liability if it is determined that we are promoting any "off-label" use of LINZESS.***

Physicians are permitted to prescribe drug products for uses that are not described in the product's labeling and that differ from those approved by the FDA or other applicable regulatory agencies. Such "off-label" uses are common across medical specialties. Although the FDA and other regulatory agencies do not regulate a physician's choice of treatments, the FDA and other regulatory agencies do restrict communications on the subject of off-label use. Companies are not permitted to promote drugs for off-label uses. Accordingly, we may not promote LINZESS in the U.S. for use in any indications other than IBS-C or CIC or in any patient populations other than adult men and women. The FDA and other regulatory and enforcement authorities actively enforce laws and regulations prohibiting promotion of off-label uses and the promotion of products for which marketing approval has not been obtained. A company that is found to have improperly promoted off-label uses will be subject to significant liability, including civil and administrative remedies as well as criminal sanctions.

Notwithstanding the regulatory restrictions on off-label promotion, the FDA and other regulatory authorities allow companies to engage in truthful, non-misleading, and non-promotional scientific exchange concerning their products. We intend to engage in medical education activities and communicate with healthcare providers in compliance with all applicable laws, regulatory guidance and industry best practices. Although we have put together a robust compliance program designed to ensure that all such activities are performed in a legal and compliant manner, LINZESS is our first commercial product, so we are now just beginning to utilize the program in connection with commercialization activities.

***If we fail to comply with healthcare regulations, we could face substantial penalties and our business, operations and financial condition could be adversely affected.***

As a manufacturer of pharmaceuticals, even though we do not and will not control referrals of healthcare services or bill directly to Medicare, Medicaid or other third-party payors, certain federal and state healthcare laws and regulations pertaining to fraud and abuse and patients' rights are and will be applicable to our business. We will be subject to healthcare fraud and abuse and patient privacy regulation by both the federal government and the states in which we conduct our business. The regulations include:

federal healthcare program anti-kickback laws, which prohibit, among other things, persons from soliciting, receiving or providing remuneration, directly or indirectly, to induce either the referral of an individual, for an item or service or the purchasing or ordering of a good or service, for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs;

federal false claims laws which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other third-party payors that are false or fraudulent, and which may apply to entities like us which provide coding and billing advice to customers;

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the federal Health Insurance Portability and Accountability Act of 1996, which prohibits executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters and which also imposes certain requirements relating to the privacy, security and transmission of individually identifiable health information;

the Federal Food, Drug, and Cosmetic Act, which among other things, strictly regulates drug product marketing, prohibits manufacturers from marketing drug products for off-label use and regulates the distribution of drug samples;

state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers, and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by federal laws, thus complicating compliance efforts;

the federal Foreign Corrupt Practices Act which prohibits corporations and individuals from paying, offering to pay, or authorizing the payment of anything of value to any foreign government official, government staff member, political party, or political candidate in an attempt to obtain or retain business or to otherwise influence a person working in an official capacity; and

the federal Physician Payments Sunshine Act, which was passed as part of the Patient Protection and Affordable Care Act of 2010, and similar state laws in certain states, that require pharmaceutical and medical device companies to monitor and report payments, gifts, the provision of samples and other remuneration made to physicians and other health care professional and health care organizations.

If our operations are found to be in violation of any of the laws described above or any governmental regulations that apply to us, we will be subject to penalties, including civil and criminal penalties, damages, fines and the curtailment or restructuring of our operations. Any penalties, damages, fines, curtailment or restructuring of our operations could adversely affect our ability to operate our business and our financial results.

In preparation for the commercial launch of LINZESS, we assembled an experienced compliance team who compiled a program based on industry best practices that is designed to ensure that our commercialization of LINZESS complies with all applicable laws, regulations and industry standards. We also hire, manage and incentivize our employees around a culture of compliance, trust, respect and ownership. Our program is relatively new and the requirements in this area are constantly evolving, we cannot be certain that our program will eliminate all areas of potential exposure. Although compliance programs can mitigate the risk of investigation and prosecution for violations of these laws, the risks cannot be entirely eliminated. Any action against us for violation of these laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. Moreover, achieving and sustaining compliance with applicable federal and state privacy, security, fraud and reporting laws may prove costly.

***Healthcare reform and other governmental and private payor initiatives may have an adverse effect upon, and could prevent, our product candidates' commercial success.***

The U.S. government and individual states are aggressively pursuing healthcare reform, as evidenced by the passing of the Patient Protection and Affordable Healthcare Act, as modified by the Health Care and Education Reconciliation Act of 2010. These healthcare reform laws contain several cost containment measures that could adversely affect our future revenue, including, for example, increased drug rebates under Medicaid for brand name prescription drugs, extension of Medicaid rebates to Medicaid managed care plans, and extension of so-called 340B discounted pricing on

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pharmaceuticals sold to certain health care providers. Additional provisions of the health care reform laws that may negatively affect our future revenue and prospects for profitability include the assessment of an annual fee based on our proportionate share of sales of brand name prescription drugs to certain government programs, including Medicare and Medicaid, as well as mandatory discounts on pharmaceuticals sold to certain Medicare Part D beneficiaries.

In addition to governmental efforts in the U.S., foreign jurisdictions as well as private health insurers and managed care plans are likely to continue challenging manufacturers' ability to obtain reimbursement, as well as the level of reimbursement, for pharmaceuticals and other healthcare related products and services. These cost-control initiatives could significantly decrease the available coverage and the price we might establish for linaclotide and our other potential products, which would have an adverse effect on our financial results.

The Food and Drug Administration Amendments Act of 2007 also provides the FDA enhanced post-marketing authority, including the authority to require post-marketing studies and clinical trials, labeling changes based on new safety information, and compliance with risk evaluations and mitigation strategies approved by the FDA. We and Forest have established a nonclinical and clinical post-marketing plan with the FDA to understand LINZESS's efficacy and safety in pediatrics. The FDA's exercise of this authority will result in increased development-related costs following LINZESS's commercial launch for the treatment of adult men and women suffering from IBS-C or CIC, and could result in potential restrictions on the sale and/or distribution of LINZESS, even in its approved indications and patient populations.

***In pursuing our growth strategy, we will incur a variety of costs and may devote resources to potential opportunities that are never completed or for which we never receive the benefit. Our failure to successfully discover, acquire, develop and market additional product candidates or approved products would impair our ability to grow.***

As part of our growth strategy, we intend to explore further linaclotide development opportunities, and to develop and market additional products and product candidates. We are exploring development opportunities to strengthen the clinical profile of LINZESS within its indicated population and to expand the product label for additional patient populations and indications, and we are exploring the potential for linaclotide-based combination products. These development efforts may fail or may not increase the revenues that we generate from LINZESS based on the currently-approved product label. Furthermore, they may result in adverse events in certain patient populations that are then attributed to the currently approved patient population, which may result in adverse regulatory action at the FDA or in other countries, and therefore our revenues from linaclotide may be materially harmed.

We are pursuing various other programs through our pipeline. We may spend several years completing our development of any particular current or future internal product candidate, and failure can occur at any stage. The product candidates to which we allocate our resources may not end up being successful. Our business depends entirely on the successful development and commercialization of our product candidates.

In addition, because our internal research capabilities are limited, we may be dependent upon pharmaceutical and biotechnology companies, academic scientists and other researchers to sell or license products or technology to us. The success of this strategy depends partly upon our ability to identify, select, discover and acquire promising pharmaceutical product candidates and products.

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The process of proposing, negotiating and implementing a license or acquisition of a product candidate or approved product is lengthy and complex. Other companies, including some with substantially greater financial, marketing and sales resources, may compete with us for the license or acquisition of product candidates and approved products. We have limited resources to identify and execute the acquisition or in-licensing of third-party products, businesses and technologies and integrate them into our current infrastructure. Moreover, we may devote resources to potential acquisitions or in-licensing opportunities that are never completed, or we may fail to realize the anticipated benefits of such efforts. We may not be able to acquire the rights to additional product candidates on terms that we find acceptable, or at all.

In addition, future acquisitions may entail numerous operational and financial risks, including:

exposure to unknown liabilities;

disruption of our business and diversion of our management's time and attention to develop acquired products or technologies;

incurrence of substantial debt, dilutive issuances of securities or depletion of cash to pay for acquisitions;

higher than expected acquisition and integration costs;

difficulty in combining the operations and personnel of any acquired businesses with our operations and personnel;

increased amortization expenses;

impairment of relationships with key suppliers or customers of any acquired businesses due to changes in management and ownership; and

inability to motivate key employees of any acquired businesses.

Further, any product candidate that we acquire may require additional development efforts prior to commercial sale, including extensive clinical testing and approval by the FDA and applicable foreign regulatory authorities. All product candidates are prone to risks of failure typical of pharmaceutical product development, including the possibility that a product candidate will not be shown to be sufficiently safe and effective for approval by regulatory authorities.

***Delays in the completion of clinical testing of any of our product candidates could result in increased costs and delay or limit our ability to generate revenues.***

Delays in the completion of clinical testing could significantly affect our product development costs. We do not know whether planned clinical trials will be completed on schedule, if at all. The commencement and completion of clinical trials can be delayed for a number of reasons, including delays related to:

obtaining regulatory approval to commence a clinical trial;

reaching agreement on acceptable terms with prospective clinical research organizations, or CROs, and trial sites, the terms of which can be subject to extensive negotiation and may vary significantly among different CROs and trial sites;



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manufacturing sufficient quantities of a product candidate for use in clinical trials;

obtaining institutional review board approval to conduct a clinical trial at a prospective site;

recruiting and enrolling patients to participate in clinical trials for a variety of reasons, including competition from other clinical trial programs for the treatment of similar conditions; and

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maintaining patients who have initiated a clinical trial but may be prone to withdraw due to side effects from the therapy, lack of efficacy or personal issues, or who are lost to further follow-up.

Clinical trials may also be delayed as a result of ambiguous or negative interim results. In addition, a clinical trial may be suspended or terminated by us, an institutional review board overseeing the clinical trial at a clinical trial site (with respect to that site), the FDA, or other regulatory authorities due to a number of factors, including:

failure to conduct the clinical trial in accordance with regulatory requirements or the study protocols;

inspection of the clinical trial operations or trial sites by the FDA or other regulatory authorities resulting in the imposition of a clinical hold;

unforeseen safety issues; or

lack of adequate funding to continue the clinical trial.

Additionally, changes in regulatory requirements and guidance may occur, and we may need to amend clinical trial protocols to reflect these changes. Each protocol amendment requires institutional review board review and approval, which may adversely impact the costs, timing or successful completion of the associated clinical trials. If we experience delays in completion, or if we terminate any of our clinical trials, the commercial prospects for our product candidate may be harmed, and our ability to generate product revenues will be delayed. In addition, many of the factors that cause, or lead to, a delay in the commencement or completion of clinical trials may also ultimately lead to the denial of regulatory approval.

***We may not be able to manage our business effectively if we lose any of our current management team or if we are unable to attract and motivate key personnel.***

We may not be able to attract or motivate qualified management and scientific, clinical, operations and commercial personnel in the future due to the intense competition for qualified personnel among biotechnology, pharmaceutical and other businesses, particularly in the greater-Boston area. If we are not able to attract and motivate necessary personnel to accomplish our business objectives, we will experience constraints that will significantly impede the achievement of our objectives.

We are highly dependent on the drug discovery, development, regulatory, commercial and financial expertise of our management, particularly Peter M. Hecht, Ph.D., our chief executive officer; Mark G. Currie, Ph.D., our senior vice president, chief scientific officer and president of research and development; Michael J. Higgins, our senior vice president, chief operating officer and chief financial officer; and Thomas A. McCourt, our senior vice president, marketing and sales and chief commercial officer. If we lose any members of our management team in the future, we may not be able to find suitable replacements, and our business may be harmed as a result. In addition to the competition for personnel, the Boston area in particular is characterized by a high cost of living. As such, we could have difficulty attracting experienced personnel to our company and may be required to expend significant financial resources in our employee recruitment efforts.

We also have scientific and clinical advisors who assist us in formulating our product development, clinical strategies and our global supply chain plans, as well as sales and marketing advisors who have assisted us in our commercialization strategy and brand plan for linaclotide. These advisors are not our employees and may have commitments to, or consulting or advisory contracts with, other entities that may limit their availability to us, or may have arrangements with other companies to assist in the development and commercialization of products that may compete with ours.

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***Security breaches and other disruptions could compromise our information and expose us to liability, which would cause our business and reputation to suffer.***

In the ordinary course of our business, we collect and store sensitive data, including intellectual property, our proprietary business information and that of our suppliers and business partners, as well as personally identifiable information of LINZESS patients, clinical trial participants and employees. Similarly, our business partners and third party providers possess certain of our sensitive data. The secure maintenance of this information is critical to our operations and business strategy. Despite our security measures, our information technology and infrastructure may be vulnerable to attacks by hackers or breached due to employee error, malfeasance or other disruptions. Any such breach could compromise our networks and the information stored there could be accessed, publicly disclosed, lost or stolen. Any such access, disclosure or other loss of information, including our data being breached at our business partners or third-party providers, could result in legal claims or proceedings, liability under laws that protect the privacy of personal information, disrupt our operations, and damage our reputation which could adversely affect our business.

***Our business involves the use of hazardous materials, and we must comply with environmental laws and regulations, which can be expensive and restrict how we do business.***

Our activities involve the controlled storage, use and disposal of hazardous materials. We are subject to federal, state, city and local laws and regulations governing the use, manufacture, storage, handling and disposal of these hazardous materials. Although we believe that the safety procedures we use for handling and disposing of these materials comply with the standards prescribed by these laws and regulations, we cannot eliminate the risk of accidental contamination or injury from these materials. In the event of an accident, local, city, state or federal authorities may curtail the use of these materials and interrupt our business operations. We do not currently maintain hazardous materials insurance coverage.

**Risks Related to Intellectual Property**

***Limitations on our patent rights relating to our product candidates may limit our ability to prevent third parties from competing against us.***

Our success will depend on our ability to obtain and maintain patent protection for our product candidates, preserve our trade secrets, prevent third parties from infringing upon our proprietary rights and operate without infringing upon the proprietary rights of others.

The strength of patents in the pharmaceutical industry involves complex legal and scientific questions and can be uncertain. Patent applications in the U.S. and most other countries are confidential for a period of time until they are published, and publication of discoveries in scientific or patent literature typically lags actual discoveries by several months or more. As a result, we cannot be certain that we were the first to conceive inventions covered by our patents and pending patent applications or that we were the first to file patent applications for such inventions. In addition, we cannot be certain that our patent applications will be granted, that any issued patents will adequately protect our intellectual property or that such patents will not be challenged, narrowed, invalidated or circumvented. The United States Patent and Trademark Office, or the USPTO, recently granted a third party request for inter partes reexamination of our U.S. Patent 7,704,947, which covers a group of peptides that includes LINZESS and related molecules. We cannot be certain that the validity of this patent will be upheld until the reexamination process is completed by the USPTO. This patent is one of several issued patents and pending applications in the U.S. related to LINZESS, including a LINZESS composition of matter and methods of use patent (U.S. Patent 7,304,036) as well as additional patents and applications covering processes for making LINZESS, formulations, and dosing regimens. Although none of our other issued patents currently is subject to a patent reexamination, we

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cannot guarantee that they will not be subject to reexamination or review by the USPTO in the future. If any or all of our LINZESS-related patents were invalidated, we would still have at least five years of marketing exclusivity under the Hatch-Waxman Act from FDA approval of LINZESS. We believe that each of the patents in our LINZESS patent portfolio was rightfully issued and the portfolio gives us sufficient freedom to operate, however, if any of our present or future patents is invalidated, this could have an adverse effect on our business and financial results, particularly for the period beyond five years following marketing approval.

Furthermore, the America Invents Act, which was signed into law in 2012, makes several major changes in the U.S. patent statutes over the course of the next few years. These changes will permit third parties to challenge our patents more easily and will create uncertainty with respect to the interpretation and practice of U.S. patent law for the foreseeable future.

We also rely upon unpatented trade secrets, unpatented know-how and continuing technological innovation to develop and maintain our competitive position, which we seek to protect, in part, by confidentiality agreements with our employees and our collaborators and consultants. We also have agreements with our employees and selected consultants that obligate them to assign their inventions to us. It is possible that technology relevant to our business will be independently developed by a person that is not a party to such an agreement. Furthermore, if the employees and consultants that are parties to these agreements breach or violate the terms of these agreements, we may not have adequate remedies, and we could lose our trade secrets through such breaches or violations. Further, our trade secrets could otherwise become known or be independently discovered by our competitors.

In addition, the laws of certain foreign countries do not protect proprietary rights to the same extent or in the same manner as the U.S., and, therefore, we may encounter problems in protecting and defending our intellectual property in certain foreign jurisdictions.

***If we are sued for infringing intellectual property rights of third parties, it will be costly and time consuming, and an unfavorable outcome in such litigation could have a material adverse effect on our business.***

Our commercial success will depend upon our ability, and the ability of our collaborators, to develop, manufacture, market and sell our products and use our proprietary technologies without infringing the proprietary rights of third parties. Numerous U.S. and foreign issued patents and pending patent applications, which are owned by third parties, exist in the fields in which we and our collaborators are developing products. As the biotechnology and pharmaceutical industry expands and more patents are issued, the risk increases that our potential products may give rise to claims of infringement of the patent rights of others. There may be issued patents of third parties of which we are currently unaware that may be infringed by LINZESS or our product candidates. Because patent applications can take many years to issue, there may be currently pending applications which may later result in issued patents that LINZESS or our product candidates may infringe.

We may be exposed to, or threatened with, litigation by third parties alleging that LINZESS or our product candidates infringe their intellectual property rights. If LINZESS or one of our product candidates is found to infringe the intellectual property rights of a third party, we or our collaborators could be enjoined by a court and required to pay damages and could be unable to commercialize the applicable product candidate unless we obtain a license to the intellectual property rights. A license may not be available to us on acceptable terms, if at all. In addition, during litigation, the counter-party could obtain a preliminary injunction or other equitable relief which could prohibit us from making, using or selling our products, pending a trial on the merits, which may not occur for several years.

There is a substantial amount of litigation involving patent and other intellectual property rights in the biotechnology and pharmaceutical industries generally. If a third party claims that we or our

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collaborators infringe its intellectual property rights, we may face a number of issues, including, but not limited to:

infringement and other intellectual property claims which, regardless of merit, may be expensive and time-consuming to litigate and may divert our management's attention from our core business;

substantial damages for infringement, which we may have to pay if a court decides that the product at issue infringes on or violates the third party's rights, and, if the court finds that the infringement was willful, we could be ordered to pay treble damages and the patent owner's attorneys' fees;

a court prohibiting us from selling our product unless the third party licenses its rights to us, which it is not required to do;

if a license is available from a third party, we may have to pay substantial royalties, fees or grant cross-licenses to our intellectual property rights; and

redesigning our products so they do not infringe, which may not be possible or may require substantial monetary expenditures and time.

***We may become involved in lawsuits to protect or enforce our patents, which could be expensive, time consuming and unsuccessful.***

Competitors may infringe our patents or may assert our patents are invalid. To counter ongoing or potential infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time-consuming. Litigation with generic manufacturers has become increasingly common in the biotechnology and pharmaceutical industries. In addition, in an infringement or invalidity proceeding, a court or patent administrative body may decide that a patent of ours is not valid or is unenforceable, or may refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. An adverse result in any litigation or defense proceedings could put one or more of our patents at risk of being invalidated or interpreted narrowly and could put our patent applications at risk of not issuing.

Interference proceedings brought by the USPTO may be necessary to determine the priority of inventions with respect to our patents and patent applications or those of our collaborators. An unfavorable outcome could require us to cease using the technology or to attempt to license rights to it from the prevailing party. Our business could be harmed if a prevailing party does not offer us a license on terms that are acceptable to us. Litigation or interference proceedings may fail and, even if successful, may result in substantial costs and distraction of our management and other employees. We may not be able to prevent, alone or with our collaborators, misappropriation of our proprietary rights, particularly in countries where the laws may not protect those rights as fully as in the U.S.

Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, there could be public announcements of the results of hearings, motions or other interim proceeding or developments.

**Risks Related to Our Finances and Capital Requirements**

***We have incurred significant operating losses since our inception and anticipate that we will incur continued losses for the foreseeable future.***

In recent years, we have focused primarily on developing, manufacturing and commercializing linaclotide. Although we launched LINZESS in the U.S. in December 2012, we believe that it will take us some time to attain profitability and positive cash flow from operations. We have financed our

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operations to date primarily through the issuance of equity, our collaboration and license arrangements and the recent issuance of debt securities related to the sales of LINZESS in the U.S., and we have incurred losses in each year since our inception in 1998. We incurred net losses attributable to Ironwood Pharmaceuticals, Inc. of approximately \$72.6 million, \$64.9 million and \$53.0 million in the years ended December 31, 2012, 2011 and 2010, respectively. As of December 31, 2012, we had an accumulated deficit of approximately \$505.0 million. Our prior losses and expected future losses, have had and will continue to have an adverse effect on our stockholders' equity and working capital. We expect our expenses to increase in connection with our efforts to commercialize linaclotide and our research and development of our other product candidates. As a result, we expect to continue to incur significant and operating losses for the foreseeable future. Because of the numerous risks and uncertainties associated with developing pharmaceutical products, we are unable to predict the extent of any future losses or when, or if, we will become profitable.

***We may need additional funding and may be unable to raise capital when needed, which could force us to delay, reduce or eliminate our product development programs or commercialization efforts.***

We recently completed the offering of \$175.0 million in debt securities related to the sales of LINZESS in the U.S. However, marketing and selling a primary care drug, purchasing commercial quantities of pharmaceutical products, developing product candidates and conducting clinical trials are expensive and uncertain. Circumstances, our strategic imperatives, or opportunities to create or acquire new programs could require us to, or we may choose to, seek to raise additional funds. The amount and timing of our future funding requirements will depend on many factors, including, but not limited to:

the level of underlying demand for LINZESS by prescribers and patients in the U.S. and for Constella by prescribers and patients in the E.U.;

the costs associated with commercializing LINZESS in the U.S.;

the costs of maintaining and expanding our sales, marketing and distribution capabilities;

the regulatory approval of linaclotide in other countries in the world and the timing of commercial launches in those countries, as well as the associated development and commercial milestones and royalties;

the rate of progress and cost of our clinical trials and other product development programs, including our post-approval nonclinical and clinical studies of LINZESS in pediatrics and our investment to strengthen the clinical profile of LINZESS within its indicated population and to expand the product label for additional patient populations and indications, as well as the potential for linaclotide-based combination products;

the costs and timing of in-licensing additional product candidates or acquiring other complementary companies;

the status, terms and timing of any collaboration, licensing, co-commercialization or other arrangements; and

the timing of any regulatory approvals of our product candidates.

Additional funding may not be available on acceptable terms or at all. If adequate funds are not available, we may be required to delay, reduce the scope of our commercialization efforts or reduce or eliminate one or more of our development programs.

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***Our ability to pay principal of and interest on our recently-issued debt securities will depend in part on the receipt of payments from Forest under the collaboration agreement that are equal to or in excess of our quarterly payment obligations on each payment date.***

In January 2013, we issued \$175.0 million in debt securities bearing an annual interest rate of 11%. Interest and principal on these securities will be payable commencing June 15, 2013 and March 15, 2014, respectively. After the interest-only period, we will make quarterly payments equal to the greater of (i) 7.5% of net sales of LINZESS in the U.S. for the preceding quarter and (ii) accrued and unpaid interest on the debt securities. If the cash flows derived from the net quarterly payments that we receive from Forest under the collaboration agreement are insufficient on any particular payment date to fund the quarterly interest payment, at a minimum, we will be obligated to pay the amounts of such shortfall out of our general funds. We expect that for the next few years, at a minimum, the net quarterly payments from Forest will be our primary source of cash flow from operations. The determination of whether Forest will be obligated to make a net quarterly payment to us in respect of a particular quarterly period is a function of the revenue generated by LINZESS in the U.S. as well as the development, manufacturing and commercialization expenses incurred by each of us and Forest under the collaboration agreement. Accordingly, since we believe that it will take us some time to attain profitability and positive cash flow from operations, we cannot guarantee that (i) we will have the available funds to fund the quarterly interest payment, at a minimum, in the event that there is a deficiency in the net quarterly payment received from Forest, (ii) there will be a net quarterly payment from Forest at all or (iii) we are not also required to make a true-up payment to Forest under the collaboration agreement, in each case, in respect of a particular quarterly period.

***Our indebtedness could adversely affect our financial condition or restrict our future operations.***

As of January 4, 2013, we had total indebtedness of approximately \$175.0 million. We chose to issue debt securities based on the additional strategic optionality that this creates for us, and the limited restrictions that these debt securities place on our ability to run our business compared to other potential available financing transactions. However, our indebtedness could have important consequences, including:

limiting our ability to obtain additional financing to fund future working capital, capital expenditures, acquisitions or other general corporate requirements;

requiring a substantial portion of our cash flow to be dedicated to debt service payments instead of other purposes, thereby reducing the amount of cash flow available for working capital, capital expenditures, corporate transactions and other general corporate purposes;

increasing our vulnerability to adverse changes in general economic, industry and competitive conditions;

limiting our flexibility in planning for and reacting to changes in the industry in which we compete;

placing us at a disadvantage compared to other, less leveraged competitors or competitors with comparable debt at more favorable interest rates; and

increasing our cost of borrowing.

Although we are not as restricted under these debt securities as we might have been under a more traditional secured credit facility provided by a bank, the indenture governing our debt securities

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contains a number of restrictive covenants that impose restrictions on us and may limit our ability to engage in certain acts, including restrictions on our ability to:

amend our collaboration agreement with Forest in a way that would have a material adverse effect on the noteholders rights, or terminate the collaboration agreement with respect to the U.S.;

transfer our rights to commercialize the product under our collaboration agreement with Forest; and

incur certain liens.

Upon a breach of the covenants under our indenture, the noteholders could elect to declare all amounts outstanding under the outstanding debt securities to be immediately due and payable. If we are unable to repay those amounts, the noteholders could proceed against the collateral granted to them to secure the debt securities. If the noteholders under the indenture accelerate the repayment of the debt securities, we cannot be certain that we will have sufficient assets to repay them.

If we breach our covenants under our indenture and seek a waiver, we may not be able to obtain a waiver from the required noteholders. If this occurs we would be in default under our indenture, the noteholders could exercise their rights, as described above, and we could be forced into bankruptcy or liquidation.

***Our quarterly and annual operating results may fluctuate significantly.***

We expect our operating results to be subject to frequent fluctuations. Our net loss and other operating results will be affected by numerous factors, including:

the level of underlying demand for LINZESS in the U.S. and wholesalers' buying patterns;

the costs associated with launching and commercializing LINZESS in the U.S.;

the achievement and timing of milestone payments under our existing collaboration and license agreements;

our execution of any collaboration, licensing or similar arrangements, and the timing of payments we may make or receive under these arrangements;

variations in the level of expenses related to our development programs;

addition or termination of clinical trials;

regulatory developments affecting our product candidates; and

any material lawsuit in which we may become involved.

If our operating results fall below the expectations of investors or securities analysts, the price of our Class A common stock could decline substantially. Furthermore, any quarterly or annual fluctuations in our operating results may, in turn, cause the price of our stock to fluctuate substantially.



*Our ability to use net operating loss and tax credit carryforwards and certain built-in losses to reduce future tax payments is limited by provisions of the Internal Revenue Code, and it is possible that certain transactions or a combination of certain transactions may result in material additional limitations on our ability to use our net operating loss and tax credit carryforwards.*

Section 382 and 383 of the Internal Revenue Code of 1986, as amended, contain rules that limit the ability of a company that undergoes an ownership change, which is generally any change in ownership of more than 50% of its stock over a three-year period, to utilize its net operating loss and tax credit carryforwards and certain built-in losses recognized in years after the ownership change.

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These rules generally operate by focusing on ownership changes involving stockholders owning directly or indirectly 5% or more of the stock of a company and any change in ownership arising from a new issuance of stock by the company. Generally, if an ownership change occurs, the yearly taxable income limitation on the use of net operating loss and tax credit carryforwards and certain built-in losses is equal to the product of the applicable long term tax exempt rate and the value of the company's stock immediately before the ownership change. We may be unable to offset our taxable income with losses, or our tax liability with credits, before such losses and credits expire and therefore would incur larger federal income tax liability. We have completed several financings since our inception which may have resulted in a change in control as defined by Section 382, or could result in a change in control in the future.

**Risks Relating to Securities Markets and Investment in Our Stock**

*Anti-takeover provisions under our charter documents and Delaware law could delay or prevent a change of control which could negatively impact the market price of our Class A common stock.*

Provisions in our certificate of incorporation and bylaws may have the effect of delaying or preventing a change of control. These provisions include the following:

Our certificate of incorporation provides for a dual class common stock structure. As a result of this structure, holders of our Class B common stock have significant influence over certain matters requiring stockholder approval, including a merger involving Ironwood, a sale of substantially all Ironwood assets and a dissolution or liquidation of Ironwood. This concentrated control could discourage others from initiating a change of control transaction that other stockholders may view as beneficial.

Our board of directors is divided into three classes serving staggered three-year terms, such that not all members of the board are elected at one time. This staggered board structure prevents stockholders from replacing the entire board at a single stockholders' meeting.

Our board of directors has the right to elect directors to fill a vacancy created by the expansion of the board of directors or the resignation, death or removal of a director, which prevents stockholders from being able to fill vacancies on our board of directors.

Our board of directors may issue, without stockholder approval, shares of preferred stock. The ability to authorize preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to acquire us.

Stockholders must provide advance notice to nominate individuals for election to the board of directors or to propose matters that can be acted upon at a stockholders' meeting. Furthermore, stockholders may only remove a member of our board of directors for cause. These provisions may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect such acquirer's own slate of directors or otherwise attempting to obtain control of our company.

Our stockholders may not act by written consent. As a result, a holder, or holders, controlling a majority of our capital stock are not able to take certain actions outside of a stockholders' meeting.

Special meetings of stockholders may be called only by the chairman of our board of directors, our chief executive officer or a majority of our board of directors. As a result, a holder, or holders, controlling a majority of our capital stock are not able to call a special meeting.

A majority of the outstanding shares of Class B common stock are required to amend our certificate of incorporation and a super-majority (80%) of the outstanding shares of common



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stock are required to amend our bylaws, which make it more difficult to change the provisions described above.

In addition, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which may prohibit certain business combinations with stockholders owning 15% or more of our outstanding voting stock. These and other provisions in our certificate of incorporation and our bylaws and in the Delaware General Corporation Law could make it more difficult for stockholders or potential acquirers to obtain control of our board of directors or initiate actions that are opposed by the then-current board of directors.

***The concentration of voting control on certain corporate matters with our pre-IPO stockholders will limit your ability to influence such matters.***

Because of our dual class common stock structure, the holders of our Class B common stock, who consist of our pre-IPO investors (and their affiliates), founders, directors, executives and certain of our employees, will continue to be able to control certain corporate matters listed below if any such matter is submitted to our stockholders for approval even if they come to own less than 50% of the outstanding shares of our common stock. As of December 31, 2012, the holders of our Class A common stock own approximately 73% and the holders of our Class B common stock own approximately 27% of the outstanding shares of Class A common stock and Class B common stock, combined. However, because of our dual class common stock structure these holders of our Class A common stock have approximately 21% and holders of our Class B common stock have approximately 79% of the total votes on each of the matters identified in the list below. This concentrated control of our Class B common stockholders limits the ability of the Class A common stockholders to influence those corporate matters and, as a result, we may take actions that many of our stockholders do not view as beneficial, which could adversely affect the market price of our Class A common stock.

Each share of Class A common stock and each share of Class B common stock has one vote per share on all matters except for the following matters, for which each share of our Class B common stock has ten votes per share and each share of our Class A common stock has one vote per share:

adoption of a merger or consolidation agreement involving Ironwood;

a sale of all or substantially all of Ironwood's assets;

a dissolution or liquidation of Ironwood; and

every matter, if and when any individual, entity or "group" (as that term is used in Regulation 13D of the Securities Exchange Act of 1934, as amended, or the Exchange Act) has, or has publicly disclosed (through a press release or a filing with the SEC) an intent to have, beneficial ownership of 30% or more of the number of outstanding shares of Class A common stock and Class B common stock, combined.

***If we identify a material weakness in our internal control over financial reporting, our ability to meet our reporting obligations and the trading price of our stock could be negatively affected.***

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim financial statements will not be prevented or detected on a timely basis. Accordingly, a material weakness increases the risk that the financial information we report contains material errors.

We regularly review and update our internal controls, disclosure controls and procedures, and corporate governance policies. In addition, we are required under the Sarbanes-Oxley Act of 2002 to report annually on our internal control over financial reporting. Any system of internal controls, however well designed and operated, is based in part on certain assumptions and can provide only

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reasonable, not absolute, assurances that the objectives of the system are met. If we, or our independent registered public accounting firm, determine that our internal controls over financial reporting are not effective, or we discover areas that need improvement in the future, these shortcomings could have an adverse effect on our business and financial results, and the price of our Class A common stock could be negatively affected.

If we cannot conclude that we have effective internal control over our financial reporting, or if our independent registered public accounting firm is unable to provide an unqualified opinion regarding the effectiveness of our internal control over financial reporting, investors could lose confidence in the reliability of our financial statements, which could lead to a decline in our stock price. Failure to comply with reporting requirements could also subject us to sanctions and/or investigations by the SEC, The NASDAQ Stock Market or other regulatory authorities.

***We expect that the price of our Class A common stock will fluctuate substantially.***

The market price of our Class A common stock may be highly volatile due to many factors, including:

- the commercial performance of linaclotide in the U.S. or in Europe;
- any third-party coverage and reimbursement policies for linaclotide;
- market conditions in the pharmaceutical and biotechnology sectors;
- developments, litigation or public concern about the safety of our potential products;
- announcements of the introduction of new products by us or our competitors;
- announcements concerning product development results, including clinical trial results, or intellectual property rights of others;
- actual and anticipated fluctuations in our quarterly and annual operating results;
- deviations in our operating results from the estimates of securities analysts;
- sales of additional shares of our common stock;
- additions or departures of key personnel;
- developments concerning current or future strategic collaborations; and
- discussion of us or our stock price in the financial or scientific press or in online investor communities.

The realization of any of the risks described in these "Risk Factors" could have a dramatic and material adverse impact on the market price of our Class A common stock. In addition, class action litigation has often been instituted against companies whose securities have experienced periods of volatility. Any such litigation brought against us could result in substantial costs and a diversion of management attention, which could hurt our business, operating results and financial condition.

**Item 1B. *Unresolved Staff Comments***

None.

**Item 2. *Properties***

Our corporate headquarters and operations are located in Cambridge, Massachusetts, where, as of December 31, 2012, we lease and occupy approximately 210,259 rentable square feet of office and laboratory space at 301 Binney Street. In October 2012, we entered into an amendment to our 301

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Binney Street building lease, pursuant to which we will rent 93,000 square feet of additional space in four stages. Each stage will commence no later than December 1, 2013, June 1, 2014, June 1, 2015 and June 1, 2016, respectively. The amendment also extends the term of the entire lease agreement by 24 months to January 2018. We believe that our facilities are suitable and adequate for our needs for the foreseeable future.

**Item 3. *Legal Proceedings***

None.

**Item 4. *Mine Safety Disclosures***

Not applicable.

Table of Contents**PART II****Item 5. Market For Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities**

Shares of our Class A common stock are traded on the NASDAQ Global Select Market under the symbol "IRWD." Our shares have been publicly traded since February 3, 2010.

	Class A Common Stock			
	2012		2011	
	High	Low	High	Low
First Quarter	\$ 15.92	\$ 10.65	\$ 14.39	\$ 10.17
Second Quarter	\$ 15.00	\$ 11.24	\$ 16.50	\$ 13.32
Third Quarter	\$ 14.36	\$ 11.29	\$ 16.49	\$ 10.18
Fourth Quarter	\$ 13.70	\$ 10.01	\$ 14.35	\$ 9.97

As of February 11, 2013, there were 46 stockholders of record of our Class A common stock and 118 stockholders of record of our Class B common stock. The number of record holders is based upon the actual number of holders registered on the books of the company at such date and does not include holders of shares in "street names" or persons, partnerships, associations, corporations or other entities identified in security position listings maintained by depositories.

Subject to preferences that may apply to any shares of preferred stock outstanding at the time, the holders of Class A common stock and Class B common stock are entitled to share equally in any dividends that our board of directors may determine to issue from time to time. In the event a dividend is paid in the form of shares of common stock or rights to acquire shares of common stock, the holders of Class A common stock will receive Class A common stock, or rights to acquire Class A common stock, as the case may be, and the holders of Class B common stock will receive Class B common stock, or rights to acquire Class B common stock, as the case may be.

We have never declared or paid any cash dividends on our capital stock, and we do not currently anticipate declaring or paying cash dividends on our capital stock in the foreseeable future. We currently intend to retain all of our future earnings, if any, to finance operations. Any future determination relating to our dividend policy will be made at the discretion of our board of directors and will depend on a number of factors, including future earnings, capital requirements, financial conditions, future prospects, contractual restrictions and covenants and other factors that our board of directors may deem relevant.

The information required to be disclosed by Item 201(d) of Regulation S-K, "Securities Authorized for Issuance Under Equity Compensation Plans," is referenced under Item 12 of Part III of this Annual Report on Form 10-K.

**Corporate Performance Graph**

The following performance graph and related information shall not be deemed to be "soliciting material" or to be "filed" with the SEC, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933, as amended, or the Securities Act, except to the extent that we specifically incorporate it by reference into such filing.

The following graph compares the performance of our Class A common stock to the NASDAQ Stock Market (U.S.) and to the NASDAQ Pharmaceutical Index from February 3, 2010 (the first date that shares of our Class A common stock were publicly traded) through December 31, 2012. The



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comparison assumes \$100 was invested after the market closed on February 3, 2010 in our Class A common stock and in each of the foregoing indices, and it assumes reinvestment of dividends, if any.

**COMPARISON OF QUARTERLY CUMULATIVE TOTAL RETURN  
Among the NASDAQ Stock Market (U.S.),  
The NASDAQ Pharmaceutical Index,  
and Ironwood Pharmaceuticals, Inc.**

**Item 6. *Selected Consolidated Financial Data***

You should read the following selected financial data together with our consolidated financial statements and the related notes appearing elsewhere in this Annual Report on Form 10-K. We have derived the consolidated statements of operations data for the years ended December 31, 2012, 2011 and 2010 and the consolidated balance sheet data as of December 31, 2012 and 2011 from our audited financial statements included elsewhere in this Annual Report on Form 10-K. We have derived the consolidated statements of operations data for the years ended December 31, 2009 and 2008 and the consolidated balance sheet data as of December 31, 2010, 2009 and 2008 from our audited financial statements not included in this Annual Report on Form 10-K. Our historical results for any prior period are not necessarily indicative of results to be expected in any future period.

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	Years Ended December 31,				
	2012	2011	2010	2009	2008
	(in thousands, except share and per share data)				
<b>Consolidated Statement of Operations Data:</b>					
Collaborative arrangements revenue	\$ 150,245	\$ 65,871	\$ 43,857	\$ 34,321	\$ 18,383
Cost and expenses:					
Cost of revenue	965				
Research and development <sup>(1)</sup>	113,474	86,093	77,454	76,100	51,421
Selling, general and administrative <sup>(1)</sup>	92,538	45,920	27,169	19,037	15,269
Collaboration expense <sup>(2)</sup>	16,030				
Total cost and expenses	223,007	132,013	104,623	95,137	66,690
Loss from operations	(72,762)	(66,142)	(60,766)	(60,816)	(48,307)
Other income (expense):					
Interest expense	(59)	(63)	(196)	(318)	(291)
Interest and investment income	197	456	614	240	2,088
Remeasurement of forward purchase contracts				600	(900)
Other income		900	993		
Other income (expense), net	138	1,293	1,411	522	897
Net loss from continuing operations before income tax (benefit) expense	(72,624)	(64,849)	(59,355)	(60,294)	(47,410)
Income tax (benefit) expense		3	(2,944)	(296)	
Net loss from continuing operations	(72,624)	(64,852)	(56,411)	(59,998)	(47,410)
Net income (loss) from discontinued operations <sup>(1)</sup>			4,551	(13,314)	(7,621)
Net loss	(72,624)	(64,852)	(51,860)	(73,312)	(55,031)
Net (income) loss from discontinued operations attributable to noncontrolling interest			(1,121)	2,127	1,157
Net loss attributable to Ironwood Pharmaceuticals, Inc.	\$ (72,624)	\$ (64,852)	\$ (52,981)	\$ (71,185)	\$ (53,874)
Net income (loss) per share attributable to Ironwood Pharmaceuticals, Inc. basic and diluted:					
Continuing operations	\$ (0.68)	\$ (0.65)	\$ (0.63)	\$ (8.43)	\$ (6.88)
Discontinued operations			0.04	(1.57)	(0.94)
Net loss per share	\$ (0.68)	\$ (0.65)	\$ (0.59)	\$ (10.00)	\$ (7.82)
Weighted average number of common shares used in net income (loss) per share attributable to Ironwood Pharmaceuticals, Inc. basic and diluted	106,402,639	99,874,790	89,653,364	7,116,774	6,889,817

(1)

Includes share-based compensation expense as indicated in the following table:

Research and development	\$ 9,080	\$ 6,071	\$ 4,112	\$ 2,372	\$ 1,627
Selling, general and administrative	8,493	5,661	3,384	2,723	991
Discontinued operations			59	149	176

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- (2) Collaboration expense for the years ended December 31, 2011, 2010, 2009 and 2008 is included in selling, general and administrative expense and was not material.

	2012	2011	December 31, 2010	2009	2008
	(in thousands)				
<b>Consolidated Balance Sheet Data:</b>					
Cash, cash equivalents and available-for-sale securities	\$ 168,228	\$ 164,016	\$ 248,027	\$ 122,306	\$ 88,375
Working capital of continuing operations (excluding deferred revenue)	132,883	138,724	234,699	107,485	86,022
Assets of discontinued operations				2,346	3,817
Total assets	229,907	208,977	301,365	162,451	138,371
Deferred revenue, including current portion	21,405	57,421	102,433	126,002	66,008
Long-term debt, including current portion				1,763	1,815
Capital lease obligations, including current portion	569	655	590	255	306
Liabilities of discontinued operations				2,301	1,327
Total liabilities	85,855	99,121	141,814	162,441	95,382
Convertible preferred stock				298,350	273,400
Noncontrolling interest				3,212	5,339
Total stockholders' equity (deficit)	144,052	109,856	159,551	(298,340)	(230,411)

**Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations****Forward-Looking Information**

The following discussion of our financial condition and results of operations should be read in conjunction with our financial statements and the notes to those financial statements appearing elsewhere in this Annual Report on Form 10-K. This discussion contains forward-looking statements that involve significant risks and uncertainties. As a result of many factors, such as those set forth under "Risk Factors" in Item 1A of this Annual Report on Form 10-K, our actual results may differ materially from those anticipated in these forward-looking statements.

**Overview**

We are an entrepreneurial pharmaceutical company focused on the discovery, development and commercialization of medicines that improve patients' lives. We have one marketed product, linaclotide, which is available in the United States under the trademarked name LINZESS and was recently approved in the European Union under the trademarked name Constella. Linaclotide is also being developed in other parts of the world by certain of our partners. We are exploring development opportunities to broaden the LINZESS label, both within its current indication and by investigating potential future indications. In addition to exploring additional development opportunities, we also have a pipeline of early development candidates and discovery research programs in multiple therapeutic areas.

In August 2012, the FDA approved LINZESS as a once-daily treatment for adult men and women suffering from IBS-C or CIC. LINZESS is being commercialized in the U.S. by us and our collaboration partner, Forest. We and Forest began commercializing LINZESS in the U.S. during December 2012.

In November 2012, the European Commission granted marketing approval to Constella for the symptomatic treatment of moderate to severe IBS-C in adults. Constella will be marketed in Europe (including the Commonwealth of Independent States and Turkey) by Almirall and is expected to be commercially available in certain European countries in the first half of 2013.

Astellas, our partner in Japan and certain other Asian countries, is developing linaclotide for the treatment of patients with IBS-C in its territory. In October 2012, Astellas initiated a double-blind, placebo controlled, dose-ranging Phase 2 clinical trial of linaclotide in adult patients with IBS-C.

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In October 2012, we entered into a collaboration agreement with AstraZeneca to co-develop and co-commercialize linaclotide for IBS-C in China, Hong Kong and Macau. In May 2012, we submitted a CTA to China's State Food and Drug Administration for a Phase 3 trial of linaclotide in patients with IBS-C. The CTA has been approved.

We continue to assess alternatives to bring linaclotide to IBS-C and CIC sufferers in the parts of the world outside of our partnered territories.

We are also exploring development opportunities to strengthen the clinical profile of LINZESS within its indicated population and to expand the product label for additional patient populations and indications, and we are exploring the potential for linaclotide-based combination products. As part of this strategy, we and Forest initiated a Phase 3b clinical trial to further characterize the effect of linaclotide on abdominal symptoms in patients with CIC.

In addition to exploring further linaclotide development opportunities, our research and development team has generated a pipeline of early development candidates and discovery research in multiple therapeutic areas, including gastrointestinal disease, CNS disorders, allergic conditions and cardiovascular disease.

We were incorporated in Delaware as Microbia, Inc. on January 5, 1998. On April 7, 2008, we changed our name to Ironwood Pharmaceuticals, Inc. Prior to September 2010, we held a majority ownership interest in Microbia, Inc. (formerly known as Microbia Precision Engineering), a subsidiary formed in September 2006. Microbia engaged in a specialty biochemicals business based on a proprietary strain-development platform. On September 21, 2010, we sold our interest in Microbia to DSM Holding Company USA, Inc., or DSM, in exchange for cash proceeds of \$9.5 million, the payment of approximately \$1.1 million of Microbia's debt and interest by DSM and future contingent consideration based on the sale of products incorporating Microbia's technology.

We currently operate in one reportable business segment human therapeutics. Our human therapeutics segment consists of the development and commercialization of our lead product, linaclotide, and other product candidates. Prior to the sale of our interest in Microbia, we also operated in the biomanufacturing segment. Our biomanufacturing segment, which comprised a much smaller part of our business, consisted of our majority ownership interest in Microbia. Our human therapeutics segment represented 100% of our total assets at December 31, 2012 and 2011. For the year ended December 31, 2010, results of operations of our biomanufacturing segment are included in net income from discontinued operations in our consolidated financial statements.

To date, we have dedicated substantially all of our activities to the research, development and commercialization of linaclotide, our lead product, as well as research and development of our other product candidates. We have incurred significant operating losses since our inception in 1998. We incurred net losses attributable to Ironwood Pharmaceuticals, Inc. of approximately \$72.6 million, \$64.9 million and \$53.0 million in the years ended December 31, 2012, 2011 and 2010, respectively. As of December 31, 2012, we had an accumulated deficit of approximately \$505.0 million and we expect to incur net losses for the foreseeable future.

In February 2012, we sold 6,037,500 shares of our Class A common stock through a firm commitment, underwritten public offering at a price to the public of \$15.09 per share. As a result of the offering, we received aggregate net proceeds, after underwriting discounts and commissions and other estimated offering expenses, of approximately \$85.2 million.

On January 4, 2013, we closed a private placement of \$175.0 million in aggregate principal amount of 11% notes due on or before June 15, 2024. The notes bear an annual interest rate of 11%, with interest paid quarterly beginning June 15, 2013, and principal expected to be paid quarterly beginning March 15, 2014. As a result of the debt offering, we received aggregate net proceeds, after offering expenses, of approximately \$167.3 million. We intend to use the net proceeds from this debt financing

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to fund our research and development efforts and to support the commercial launch of LINZESS, in addition to general corporate purposes.

**Financial Overview**

*Revenue.* Revenue to date from our human therapeutics segment has been generated primarily through our collaboration agreements with Forest and AstraZeneca, and our license agreements with Almirall and Astellas. The terms of these agreements contain multiple deliverables which may include (i) licenses, (ii) research and development activities, and (iii) the manufacture of API, finished drug product and development materials for the collaborative partners. Payments to us may include one or more of the following: nonrefundable license fees; payments for research and development activities; payments for the manufacture of API, finished drug product and development materials; and payments based upon the achievement of certain milestones and royalties on product sales. Additionally, we will receive our share of the net profits or bear our share of the net losses from the sale of linaclotide in the U.S. and China. LINZESS launched in the U.S. in the fourth quarter of 2012 and Constella is expected to be commercially available in certain European countries in the first half of 2013.

We record our share of the net profits and losses from the sales of LINZESS in the U.S. on a net basis and present the settlement payments as collaborative arrangements revenue or collaboration expense, as applicable. Net profits or losses consist of net sales to third-party customers in the U.S. less the cost to manufacture LINZESS as well as selling and marketing expenses. Although we expect net sales to increase during the launch phase, the settlement payments between Forest and us resulting in collaborative arrangement revenue or collaboration expense are subject to fluctuation based on the ratio of selling and marketing expenses incurred by each party. In addition, our collaborative arrangements revenue may fluctuate as a result of timing and amount of license fees and clinical and commercial milestones received and recognized under our current and future strategic partnerships as well as timing and amount of royalties from the sales of Constella in the European market.

Revenue from our biomanufacturing segment was generated by our former subsidiary, Microbia, which had entered into research and development service agreements with various third parties. These agreements generally provided for fees for research and development services rendered. As a result of the sale of our interest in Microbia, revenue from our biomanufacturing segment, for the year ended December 31, 2010, is included in net income from discontinued operations.

*Cost of Revenue.* Cost of revenue is recognized upon shipment of linaclotide API to certain of our collaboration partners. Our cost of revenue consists of the costs of producing such API. We expensed most of the manufacturing costs of API as research and development expenses in the periods prior to July 1, 2012, at which date we began capitalizing linaclotide-related inventory costs as their realizability became probable. As of December 31, 2012, the previously expensed API inventory that is commercially saleable has been substantially utilized. We expect our cost of revenue to increase in future periods.

*Research and Development Expense.* Research and development expense consists of expenses incurred in connection with the discovery, development, manufacture and distribution of our product candidates. These expenses consist primarily of compensation, benefits and other employee related expenses, research and development related facility costs, third-party contract costs relating to research, formulation, manufacturing, nonclinical study and clinical trial activities as well as licensing fees for our product candidates prior to regulatory approval. We charge all research and development expenses to operations as incurred. Under our Forest and AstraZeneca collaboration agreements, we are reimbursed for certain research and development expenses, and we net these reimbursements against our research and development expenses as incurred. Payments to Forest or AstraZeneca are recorded as incremental research and development expense.

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The costs of revenue related to the Microbia services contracts and costs associated with Microbia's research and development activities are included in net income (loss) from discontinued operations.

Our lead product is linaclotide, and it represents the largest portion of our research and development expense for our product candidates. Linaclotide is our only product or product candidate that has demonstrated clinical proof of concept. An NDA for LINZESS with respect to both IBS-C and CIC was approved by the FDA in August 2012. In November 2012, the EMA approved Constella for the treatment of IBS-C in adults.

We are also exploring development opportunities to strengthen the clinical profile of LINZESS within its indicated population and to expand the product label for additional patient populations and indications, and we are exploring the potential for linaclotide-based combination products. As part of this strategy, we and Forest initiated a Phase 3b clinical trial to further characterize the effect of linaclotide on abdominal symptoms in patients with CIC.

In addition to exploring further linaclotide development opportunities, we also have a pipeline focused on both research and development of early development candidates and discovery research in multiple therapeutic areas, including gastrointestinal disease, CNS disorders, allergic conditions and cardiovascular disease.

The following table sets forth our research and development expenses related to our product pipeline for the years ended December 31, 2012, 2011 and 2010. These expenses relate primarily to external costs associated with manufacturing, including supply chain development, nonclinical studies and clinical trial costs. Costs related to facilities, depreciation, share-based compensation and research and development support services are not directly charged to programs.

	Years Ended December 31,		
	2012	2011	2010
	(in thousands)		
Demonstrated clinical proof of concept	\$ 28,953	\$ 21,514	\$ 26,684
Early development candidates	22,283	13,498	13,067
Discovery research	10,515	13,454	6,134

Since 2004, the date we began tracking costs by program, we have incurred approximately \$173.8 million of research and development expenses related to linaclotide. The expenses for linaclotide include both reimbursements to us by Forest or AstraZeneca as well as our portion of research and development costs incurred by Forest or AstraZeneca for linaclotide and invoiced to us under the cost-sharing provisions of our collaboration agreements.

The lengthy process of securing regulatory approvals for new drugs requires the expenditure of substantial resources. Any failure by us to obtain, or any delay in obtaining, regulatory approvals would materially adversely affect our product development efforts and our business overall. In August 2012, the FDA approved our NDA for LINZESS as a once-daily treatment for adult men and women suffering from IBS-C and CIC. In connection with the FDA approval, we are required to conduct certain nonclinical and clinical studies aimed at understanding: (a) whether orally administered linaclotide can be detected in breast milk, (b) the potential for antibodies to be developed to linaclotide, and if so, (c) whether antibodies specific for linaclotide could have any therapeutic or safety implications. In addition, we and Forest established a nonclinical and clinical post-marketing plan with the FDA to understand LINZESS's efficacy and safety in pediatric patients. In October 2012, we entered into a collaboration agreement with AstraZeneca under which we will jointly develop and commercialize linaclotide in China, Hong Kong and Macau. We also are exploring the expansion of linaclotide in other parts of the world outside of our currently partnered territories, as well as the potential for linaclotide in other indications and the potential for linaclotide-based combination

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products. Therefore, we cannot currently estimate with any degree of certainty the amount of time or money that we will be required to expend in the future on linaclotide in pediatrics, for other geographic markets or additional indications. We also continue to advance our pipeline focused on early development candidates and discovery research in multiple therapeutic areas, including gastrointestinal disease, CNS disorders, allergic conditions and cardiovascular disease. Given the inherent uncertainties that come with the development of pharmaceutical products, we cannot estimate with any degree of certainty how these programs will evolve, and therefore the amount of time or money that would be required to obtain regulatory approval to market them. As a result of these uncertainties surrounding the timing and outcome of any approvals, we are currently unable to estimate precisely when, if ever, linaclotide will be developed in pediatrics or for other indications or markets, or when, if ever, any of our other product candidates will generate revenues and cash flows.

We invest carefully in our pipeline, and the commitment of funding for each subsequent stage of our development programs is dependent upon the receipt of clear, supportive data. In addition, we are actively engaged in evaluating externally-discovered drug candidates at all stages of development. In evaluating potential assets, we apply the same criteria as those used for investments in internally-discovered assets.

The successful development of our product candidates is highly uncertain and subject to a number of risks including, but not limited to:

The duration of clinical trials may vary substantially according to the type, complexity and novelty of the product candidate.

The FDA and comparable agencies in foreign countries impose substantial requirements on the introduction of therapeutic pharmaceutical products, typically requiring lengthy and detailed laboratory and clinical testing procedures, sampling activities and other costly and time-consuming procedures.

Data obtained from nonclinical and clinical activities at any step in the testing process may be adverse and lead to discontinuation or redirection of development activity. Data obtained from these activities also are susceptible to varying interpretations, which could delay, limit or prevent regulatory approval.

The duration and cost of discovery, nonclinical studies and clinical trials may vary significantly over the life of a product candidate and are difficult to predict.

The costs, timing and outcome of regulatory review of a product candidate may not be favorable.

The emergence of competing technologies and products and other adverse market developments may negatively impact us.

As a result of the uncertainties discussed above, we are unable to determine the duration and costs to complete current or future nonclinical and clinical stages of our product candidates or when, or to what extent we will generate revenues from the commercialization and sale of our products and product candidates. Development timelines, probability of success and development costs vary widely. We anticipate that we will make determinations as to which additional programs to pursue and how much funding to direct to each program on an ongoing basis in response to the data of each product candidate, the competitive landscape and ongoing assessments of such product candidate's commercial potential. As a result of the regulatory approvals in 2012, LINZESS began generating sales in the fourth quarter of 2012 upon commercial launch in the U.S. and Constella is expected to be commercially available in the European market in the first half of 2013.

We expect our research and development costs will be substantial for the foreseeable future. We will continue to invest in linaclotide including the areas of its supply chain and the exploration of its

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utility in other indications and other patient populations. We will also invest in our other product candidates as we advance them through nonclinical studies and clinical trials, in addition to funding full-time equivalents for research and development activities under our external collaboration and license agreements.

*Selling, General and Administrative Expense.* Selling, general and administrative expense consists primarily of compensation, benefits and other employee related expenses for personnel in our administrative, finance, legal, information technology, business development, commercial, sales, marketing and human resource functions. Other costs include the legal costs of pursuing patent protection of our intellectual property, general and administrative related facility costs and professional fees for accounting and legal services. We anticipate substantial increases in expenses related to developing the organization necessary to further support the commercial launch of LINZESS, including expanding our commercial and sales force teams. We charge all selling, general and administrative expenses to operations as incurred.

Under our Forest and AstraZeneca collaboration agreements, we are reimbursed for certain selling and/or marketing expenses and we net these reimbursements against our selling, general and administrative expenses as incurred. Beginning in the fourth quarter of 2012, we include Forest's selling and marketing cost-sharing payments in the calculation of the net profits and net losses from the sale of LINZESS in the U.S. and present the net payment to or from Forest as collaboration expense or collaborative arrangements revenue, respectively. The selling and marketing cost-sharing payments for the prior periods were classified as selling, general and administrative expenses.

*Collaboration Expense.* Collaboration expense represents 50% of LINZESS net sales in the U.S as well as cost of revenue and selling and marketing cost-sharing settlement between us and Forest. Prior to the fourth quarter of 2012, such selling and marketing cost-sharing payments were presented within selling, general and administrative expenses and were not material to the consolidated financial statements. We expect our collaboration expense to vary in the short term due to the effects of the net profit or loss sharing arrangement under the collaboration with Forest.

**Critical Accounting Policies and Estimates**

Our discussion and analysis of our financial condition and results of operations is based upon our consolidated financial statements prepared in accordance with generally accepted accounting principles in the U.S., or GAAP. The preparation of these financial statements requires us to make certain estimates and assumptions that affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses during the reported periods and related disclosures. These estimates and assumptions, including those related to revenue recognition, inventory valuation and related reserves, research and development expenses and share-based compensation are monitored and analyzed by us for changes in facts and circumstances, and material changes in these estimates could occur in the future. These critical estimates and assumptions are based on our historical experience, our observance of trends in the industry, and various other factors that are believed to be reasonable under the circumstances and form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from our estimates under different assumptions or conditions.

We believe that our application of the following accounting policies, each of which require significant judgments and estimates on the part of management, are the most critical to aid in fully understanding and evaluating our reported financial results. Our significant accounting policies are more fully described in Note 2, *Summary of Significant Accounting Policies*, to our consolidated financial statements appearing elsewhere in this Annual Report on Form 10-K.



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***Revenue Recognition***

Our revenue is generated primarily through collaborative research and development and license agreements. The terms of these agreements contain multiple deliverables which may include (i) licenses, (ii) research and development activities, and (iii) the manufacture of finished drug product, API and development materials for the collaborative partner. Payments to us under these agreements may include non-refundable license fees, payments for research and development activities, payments for the manufacture of finished drug product, API and development materials, payments based upon the achievement of certain milestones and royalties on product sales. Additionally, we may receive our share of the net profits or bear our share of the net losses from the sale of linaclotide in the U.S. and China.

We evaluate revenue from agreements that have multiple elements under the guidance of Accounting Standards Update, or ASU, No. 2009-13, *Multiple-Deliverable Revenue Arrangements*, or ASU 2009-13, which we adopted in January 2011. We identify the deliverables included within the agreement and evaluate which deliverables represent separate units of accounting. We account for those components as separate elements when the following criteria are met:

the delivered items have value to the customer on a stand-alone basis;

if there is a general right of return relative to the delivered items, delivery or performance of the undelivered items is considered probable and within our control.

The consideration is allocated among the separate units of accounting using the relative selling price method, and the applicable revenue recognition criteria are applied to each of the separate units. The determination that multiple elements in an arrangement meet the criteria for separate units of accounting requires us to exercise our judgment.

We recognize revenue when there is persuasive evidence that an arrangement exists, services have been rendered or delivery has occurred, the price is fixed or determinable, and collection is reasonably assured.

The determination of whether we should recognize revenue on a gross or net basis involves judgment based on the relevant facts and circumstances, which relate primarily to whether we act as a principal or agent in the process of generating revenues from our collaboration and licensing arrangements. In making this assessment, we consider whether we are the primary obligor in the arrangement and whether we have the risks and rewards of ownership.

For certain of our arrangements, particularly our license agreement with Almirall, it is required that taxes be withheld on payments to us. We have adopted a policy to recognize revenue net of these tax withholdings.

***Up-Front License Fees***

We recognize revenues from nonrefundable, up-front license fees related to collaboration and license agreements entered into before January 1, 2011, including the \$70.0 million up-front license fee under the Forest collaboration agreement entered into in September 2007, the \$40.0 million up-front license fee, of which \$38.0 million was received net of foreign withholding taxes, under the Almirall license agreement entered into in April 2009 and the \$30 million up-front license fee under the Astellas license agreement entered into in November 2009, on a straight-line basis over the contracted or estimated period of performance since the license deliverables were not deemed to have value on a standalone basis and we could not determine the fair value of the undelivered elements. The period of performance over which the revenues are recognized is typically the period over which the research and/or development is expected to occur. As a result, we often are required to make estimates regarding drug development and commercialization timelines for compounds being developed pursuant

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to a collaboration or license agreement. Because the drug development process is lengthy and our collaboration and license agreements typically cover activities over several years, this approach has resulted in the deferral of significant amounts of revenue into future periods. In addition, because of the many risks and uncertainties associated with the development of drug candidates, our estimates regarding the period of performance may change in the future. Any change in our estimates could result in substantial changes to the period over which the revenues from an up-front license fee are recognized. In June 2011, we revised our estimate of the development period associated with our Almirall license agreement from 50 months to 41 months and adjusted the amortization of the remaining deferred revenue accordingly. Aside from this change, we have had no other material changes to our estimated periods of continuing involvement under existing collaboration and license agreements. At September 30, 2012, the up-front license fees under the Forest and Almirall collaborations were fully amortized.

We recognize revenue allocated to the license related to collaboration and license agreements entered into or materially modified on or after January 1, 2011, including the amounts allocated to the license under the AstraZeneca collaboration agreement entered into in October 2012, upon delivery, when we believe the license to our intellectual property has stand-alone value. When we recognize revenue allocated to the license upon delivery under any of our collaborations, we may experience significant fluctuations in our collaborative arrangements revenues from quarter to quarter and year to year depending on the timing of transactions. When we believe the license to our intellectual property does not have stand-alone value from the other deliverables to be provided in the arrangement, we recognize revenue attributed to the license on a straight-line basis over the contractual or estimated performance period.

*Milestones*

At the inception of each arrangement that includes contingent milestone payments, we evaluate whether each milestone is substantive. This evaluation includes an assessment of whether (a) the consideration is commensurate with either (1) the entity's performance to achieve the milestone, or (2) the enhancement of the value of the delivered item(s) as a result of a specific outcome resulting from the entity's performance to achieve the milestone, (b) the consideration relates solely to past performance and (c) the consideration is reasonable relative to all of the deliverables and payment terms within the arrangement. We evaluate factors such as the scientific, clinical, regulatory, commercial and other risks that must be overcome to achieve the respective milestone, the level of effort and investment required and whether the milestone consideration is reasonable relative to all deliverables and payment terms in the arrangement in making this assessment. Substantive milestones are due to us upon the initiation of a Phase 3 study for linaclotide in Japan and upon the filing and approval of the Japanese equivalent of an NDA with the relevant regulatory authority in Japan.

On January 1, 2011, we adopted ASU No. 2010-17, *Revenue Recognition Milestone Method*, or ASU 2010-17. As a result of this adoption, in those circumstances where a substantive milestone is achieved and collection of the related receivable is reasonably assured, we recognize revenue related to the milestone in its entirety in the period in which the milestone is achieved.

Prior to January 1, 2011, in those circumstances where a substantive milestone was achieved, collection of the related receivable was reasonably assured and we had remaining obligations to perform under the collaboration arrangement, we recognized as revenue on the date the milestone was achieved an amount equal to the applicable percentage of the performance period that had elapsed as of the date the milestone was achieved, with the balance being deferred and recognized over the remaining period of performance. Milestone payments received prior to the adoption of ASU 2010-17 under the Forest collaboration and Almirall license agreement were recognized based upon this method.

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Milestones that are not considered substantive are recognized on a straight-line basis over the remaining period of performance. Commercial milestones are accounted for as royalties and are recorded as revenue upon achievement of the milestone, assuming all other revenue recognition criteria are met. All of the milestones that have been achieved to date under our Forest collaboration agreement and our Almirall license agreement were substantive. As of December 31, 2012, we had not achieved any milestones under our Astellas license agreement or AstraZeneca collaboration agreement.

Payments received or reasonably assured after performance obligations are fully met are recognized as earned. Because the recognition of a substantive milestone under a collaboration agreement typically requires the completion of a number of activities conducted over a significant period of time, the expenses related to achieving the milestone often are incurred prior to the period in which the milestone payment is recognized. When we do achieve milestones that we consider substantive under any of our collaborations, we may experience significant fluctuations in our collaborative arrangements revenue from quarter to quarter and year to year depending on the timing of achieving such substantive milestones.

*Net Profit or Net Loss Sharing*

We recognize our share of the pre-tax commercial net profit or net loss generated from the sales of LINZESS in the U.S. in the period the product sales are recorded by Forest and related cost of product sales and selling and marketing expenses are incurred by us and our collaboration partner. These amounts are partially determined based on amounts provided by Forest and involve the use of estimates and judgments, such as product sales allowances and accruals related to prompt payment discounts, chargebacks, governmental and contractual rebates, wholesaler fees, product returns, and co-payment assistance costs, which could be adjusted based on actual results in the future. We are highly dependent on Forest for timely and accurate information regarding any net revenues realized from sales of LINZESS and the costs incurred in selling it, in order to accurately report our results of operations. For the periods covered in the consolidated financial statements presented, there have been no significant or material changes to prior period estimates of revenues, cost of revenue and selling and marketing expenses associated with the sales of LINZESS in the U.S. However, if we do not receive timely and accurate information or incorrectly estimate activity levels associated with the collaboration at a given point in time, we could be required to record adjustments in future periods.

We record our share of the net profits or net losses from the sales of LINZESS on a net basis and present the settlement payments as collaborative arrangements revenue or collaboration expense, as applicable. We and our collaborative partner settle the cost sharing quarterly, and each payment represents 50% of LINZESS net sales in the U.S as well as the cost sharing settlement of selling and marketing expenses and cost of revenue between us and Forest. Prior to 2012, such selling and marketing cost-sharing payments were presented within selling, general and administrative expenses and were not material to the consolidated financial statements.

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*Other*

We produce API, finished drug product and development materials for certain of our collaborators. We recognize revenue on API, finished drug product and development materials when the material has passed all quality testing required for collaborator acceptance, delivery has occurred, title and risk of loss have transferred to the collaborator, the price is fixed or determinable, and collection is reasonably assured. As it relates to development materials and API produced for Almirall and Astellas, we are reimbursed at a contracted rate. Such reimbursements are considered as part of revenue generated by Almirall and Astellas license agreements and presented as collaborative arrangements revenue. Any API, finished drug product and development materials currently produced for Forest or AstraZeneca are recognized in accordance with the cost-sharing provisions of the Forest and AstraZeneca collaboration agreements, respectively. We may experience fluctuations in our collaborative arrangements revenue from quarter to quarter and year to year depending on the timing of such transactions.

***Inventory Valuation and Related Reserves***

Inventory is stated at the lower of cost or market with cost determined under the first-in, first-out basis.

We evaluate inventory levels quarterly and any inventory that has a cost basis in excess of its expected net realizable value, inventory that becomes obsolete, inventory in excess of expected sales requirements or inventory that fails to meet commercial sale specifications is written down with a corresponding charge to cost of revenue in the period that the impairment is first identified.

We capitalize inventories manufactured in preparation for initiating sales of a product candidate when the related product candidate is considered to have a high likelihood of regulatory approval and the related costs are expected to be recoverable through sales of the inventories. In determining whether or not to capitalize such inventories, we evaluate, among other factors, information regarding the product candidate's safety and efficacy, the status of regulatory submissions and communications with regulatory authorities and the outlook for commercial sales, including the existence of current or anticipated competitive drugs and the availability of reimbursement. In addition, we evaluate risks associated with manufacturing the product candidate and the remaining shelf life of the inventories.

Costs associated with developmental products prior to satisfying the inventory capitalization criteria are charged to research and development expense as incurred.

There is a risk inherent in these judgments and any changes in these judgments may have a material impact on our financial results in future periods.

***Research and Development Expense***

All research and development expenses are expensed as incurred. Research and development expenses comprise costs incurred in performing research and development activities, including compensation, benefits and other employee costs; share-based compensation expense; laboratory supplies and other direct expenses; facilities expenses; overhead expenses; licensing fees for our product candidates prior to regulatory approval; milestone payments associated with our licensing agreements, contractual services, including clinical trial and related clinical manufacturing expenses; and other external expenses. Clinical trial expenses include expenses associated with contract research organizations, or CROs. The invoicing from CROs for services rendered can lag several months. We accrue the cost of services rendered in connection with CRO activities based on our estimate of site management, monitoring costs, project management costs, and investigator fees. We maintain regular communication with our CRO vendors to gauge the reasonableness of our estimates. Differences between actual clinical trial expenses and estimated clinical trial expenses recorded have not been

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material and are adjusted for in the period in which they become known. Under our Forest and AstraZeneca collaboration agreements, we are reimbursed for certain research and development expenses and we net these reimbursements against our research and development expenses as incurred. Payments to Forest or AstraZeneca are recorded as incremental research and development expense. Nonrefundable advance payments for research and development activities are capitalized and expensed over the related service period or as goods are received.

**Share-based Compensation Expense**

We recognize compensation expense for all time-based vested awards based on the grant date fair value. These costs are recognized on a straight-line basis over the requisite service period.

We record the expense of services rendered by non-employees based on the estimated fair value of the stock option using the Black-Scholes option-pricing model as of the respective vesting date. Further, we expense the fair value of non-employee stock options over the vesting term of the underlying stock options.

For employee share-based awards, we estimate the fair value of the share-based awards, including stock options, using the Black-Scholes option-pricing model. Determining the fair value of share-based awards requires the use of highly subjective assumptions, including the expected term of the award and expected stock price volatility. The weighted average assumptions used in calculating the fair value of share-based awards granted in 2012, 2011 and 2010 are set forth below:

	Years Ended December 31,		
	2012	2011	2010
Volatility	49.2%	49.8%	57.4%
Dividend yield	%	%	%
Expected life of options (in years)	6.5	6.5	6.5
Risk-free interest rate	1.2%	2.4%	2.9%

The assumptions used in determining the fair value of share-based awards represent management's best estimates, but these estimates involve inherent uncertainties and the application of management judgment. As a result, if factors change, and we use different assumptions, our share-based compensation could be materially different in the future. The risk-free interest rate used for each grant is based on a zero-coupon U.S. Treasury instrument with a remaining term similar to the expected term of the share-based award. Because we do not have a sufficient history to estimate the expected term, we use the simplified method as described in SAB Topic 14.D.2 for estimating the expected term. The simplified method is based on the average of the vesting tranches and the contractual life of each grant. Because there was no public market for our common stock prior to our initial public offering, we lacked company-specific historical and implied volatility information. Therefore, we use a blended volatility rate using our own historical volatility and that of publicly-traded peer companies. For purposes of identifying publicly-traded peer companies, we selected publicly-traded companies that are in the biopharmaceutical industry, have products or product candidates in similar therapeutic areas (gastrointestinal dysfunction and pain management) and stages of nonclinical and clinical development as us, have sufficient trading history to derive a historic volatility rate and have similar vesting terms as our granted options. We have not paid and do not anticipate paying cash dividends on our shares of common stock; therefore, the expected dividend yield is assumed to be zero. We also recognize compensation expense for only the portion of options that are expected to vest. Accordingly, we have estimated expected forfeitures of stock options based on our historical forfeiture rate, adjusted for known trends, and used these rates in developing a future forfeiture rate. Our forfeiture rates were 6.0%, 5.5% and 5.5% as of December 31, 2012, 2011 and 2010, respectively. If our actual forfeiture

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rate varies from our historical rates and estimates, additional adjustments to compensation expense may be required in future periods.

Prior to our initial public offering, we granted stock options at exercise prices not less than the fair value of our common stock as determined by our board of directors, with input from management. Due to the absence of an active market for our common stock, prior to our initial public offering on February 2, 2010, our board of directors had historically determined, with input from management, the estimated fair value of our common stock on the date of grant.

We have also granted performance-based stock options with terms that allow the recipients to vest in a specific number of shares based upon the achievement of performance-based milestones as specified in the grants. Share-based compensation expense associated with these performance-based stock options is recognized if the performance condition is considered probable of achievement using management's best estimates of the time to vesting for the achievement of the performance-based milestones. If the actual achievement of the performance-based milestones varies from our estimates, share-based compensation expense could be materially different than what is recorded in the period. The cumulative effect on current and prior periods of a change in the estimated time to vesting for performance-based stock options will be recognized as compensation cost in the period of the revision, and recorded as a change in estimate.

We have also granted time-accelerated stock options with terms that allow the acceleration in vesting of the stock options upon the achievement of performance-based milestones specified in the grants. Share-based compensation expense associated with these time-accelerated stock options is recognized over the requisite service period of the awards or the implied service period, if shorter.

While the assumptions used to calculate and account for share-based compensation awards represents management's best estimates, these estimates involve inherent uncertainties and the application of management's judgment. As a result, if revisions are made to our underlying assumptions and estimates, our share-based compensation expense could vary significantly from period to period.

As of December 31, 2012, there was approximately \$0.4 million and \$35.1 million of unrecognized share-based compensation, net of estimated forfeitures, related to restricted stock awards and unvested stock option grants with time-based vesting, respectively which are expected to be recognized over a weighted average period of 1 year and 3.1 years, respectively. The total unrecognized share-based compensation cost will be adjusted for future changes in estimated forfeitures. Additionally, at December 31, 2012, approximately \$4.1 million of additional share-based compensation related to options subject to performance-based milestone vesting was not yet recognized. See Notes 2 and 13 to our consolidated financial statements located in this Annual Report on Form 10-K for further discussion of share-based compensation.

Table of Contents**Results of Operations**

The following discussion summarizes the key factors our management believes are necessary for an understanding of our consolidated financial statements.

	Years Ended December 31,		
	2012	2011	2010
	(in thousands)		
Collaborative arrangements revenue	\$ 150,245	\$ 65,871	\$ 43,857
Cost and expenses:			
Cost of revenue	965		
Research and development	113,474	86,093	77,454
Selling, general and administrative	92,538	45,920	27,169
Collaboration expense <sup>(1)</sup>	16,030		
<b>Total cost and expenses</b>	<b>223,007</b>	<b>132,013</b>	<b>104,623</b>
Loss from operations	(72,762)	(66,142)	(60,766)
Other income (expense):			
Interest expense	(59)	(63)	(196)
Interest and investment income	197	456	614
Other income		900	993
<b>Other income (expense), net</b>	<b>138</b>	<b>1,293</b>	<b>1,411</b>
Net loss from continuing operations before income tax (benefit) expense	(72,624)	(64,849)	(59,355)
Income tax (benefit) expense		3	(2,944)
Net loss from continuing operations	(72,624)	(64,852)	(56,411)
Net income from discontinued operations			4,551
Net loss	(72,624)	(64,852)	(51,860)
Net income from discontinued operations attributable to noncontrolling interest			(1,121)
<b>Net loss attributable to Ironwood Pharmaceuticals, Inc.</b>	<b>\$ (72,624)</b>	<b>\$ (64,852)</b>	<b>\$ (52,981)</b>

(1) Collaboration expense for the years ended December 31, 2011 and 2010 is included in selling, general and administrative expense and was not material.

***Year Ended December 31, 2012 Compared to Year Ended December 31, 2011****Revenue*

	Years Ended December 31,		Change	
	2012	2011	\$	%
	(dollars in thousands)			
Collaborative arrangements revenue	\$ 150,245	\$ 65,871	\$ 84,374	128.1%

*Collaborative Arrangements.* The increase in revenue from collaborative arrangements of approximately \$84.4 million for the year ended December 31, 2012 compared to the year ended December 31, 2011 was primarily related to the additional \$65.0 million in milestone payments we earned under the Forest collaboration agreement and the \$24.7 million in revenue earned under the AstraZeneca collaboration agreement, principally related to the license for linaclotide in China. In





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August 2012, we achieved two milestones totaling \$85.0 million under the Forest collaboration agreement due to the FDA's approval of the linaclotide NDA for both IBS-C and CIC. In 2011, we achieved two milestones totaling \$20.0 million upon the FDA's acceptance of the linaclotide NDA for both IBS-C and CIC. Additionally, during 2012, we recognized approximately \$3.4 million more in shipments of linaclotide API, primarily to Almirall in anticipation of a potential commercial launch in Europe in the first half of 2013. These increases were offset by an \$8.7 million decrease in the amortization of deferred revenue associated with the development phase of the collaboration and license agreements with Forest and Almirall as the performance periods ended in September 2012.

*Cost and Expenses*

	Years Ended December 31,		Change	
	2012	2011	\$	%
(dollars in thousands)				
<b>Cost and expenses:</b>				
Cost of revenue	\$ 965	\$ 965	\$ 965	100.0%
Research and development	113,474	86,093	27,381	31.8%
Selling, general and administrative	92,538	45,920	46,618	101.5%
Collaboration expense	16,030		16,030	100.0%
<b>Total cost and expenses</b>	<b>\$ 223,007</b>	<b>\$ 132,013</b>	<b>\$ 90,994</b>	<b>68.9%</b>

*Cost of Revenue.* The increase in cost of revenue of approximately \$1.0 million for the year ended December 31, 2012 compared to the year ended December 31, 2011 was related to our inventory capitalization policy. We expensed most of the manufacturing costs of API for linaclotide as research and development expenses in the periods prior to July 1, 2012. In the third quarter of 2012, we began capitalizing inventory costs for linaclotide API manufactured in preparation for its planned launch in the U.S. and Europe. As of December 31, 2012, the previously expensed API inventory that is commercially saleable has been substantially utilized.

*Research and Development Expense.* The increase in research and development expense of approximately \$27.4 million for the year ended December 31, 2012 compared to the year ended December 31, 2011 was primarily related to an increase of approximately \$10.8 million in compensation, benefits, and employee related expenses associated mainly with increased headcount; an increase of approximately \$6.7 million associated with linaclotide development, consisting of increased contract manufacturing costs associated with validation of batches of linaclotide API in anticipation of a potential commercial launch, higher collaboration expenses from Forest and decreased reimbursements from Forest, partially offset by a decrease in contract research associated with lower clinical trial expenses; an increase of approximately \$3.8 million in research and development related facilities costs, including rent, property taxes and amortization of leasehold improvements, associated with additional space we leased and improved in our 301 Binney Street facility; an increase of approximately \$3.1 million in research costs related to our other pipeline candidates, including research and development fees, and up-front and milestone payments associated with our licensing agreements; and an increase of approximately \$3.0 million in share-based compensation expense primarily related to our new hire grants and our annual stock option grant made in February 2012.

*Selling, General and Administrative Expense.* Selling, general and administrative expenses increased approximately \$46.6 million for the year ended December 31, 2012 compared to the year ended December 31, 2011 primarily as a result of increases in our workforce expenses and infrastructure due to the commercial launch of linaclotide in the U.S. These increases include approximately \$25.3 million in compensation, benefits and other employee related expenses associated with increased headcount, mainly due to a newly hired field sales force; external consulting costs of approximately \$13.7 million

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primarily associated with developing the infrastructure to commercialize and support linaclotide, including sales training and conferences; approximately \$2.1 million in selling, general and administrative related facilities and IT infrastructure costs associated with operating our 301 Binney Street facility, including rent and amortization of leasehold improvements; approximately \$3.0 million in corporate legal, patent and other professional service fees; and approximately \$2.8 million in share-based compensation expense primarily related to our new hire grants and our annual stock option grant made in February 2012. These increases are offset by an approximately \$0.3 million decrease in amounts related to the cost-sharing arrangement with Forest, which are presented as collaboration expense in the year ended December 31, 2012 and were not reclassified from selling, general and administrative expense in 2011 as the amount was not material to the consolidated financial statements.

*Collaboration expense.* Collaboration expense increased approximately \$16.0 million for the year ended December 31, 2012 compared to the year ended December 31, 2011, primarily the result of a net increase in selling and marketing expenses incurred by Forest under our collaboration agreement, partially offset by our share of LINZESS sales in the U.S. Prior to 2012, such selling and marketing cost-sharing payments were presented within selling, general and administrative expenses.

*Other Income (Expense), Net*

	Years Ended December 31,		Change	
	2012	2011	\$	%
	(dollars in thousands)			
Other income (expense):				
Interest expense	\$ (59)	\$ (63)	4	(6.3)%
Interest and investment income	197	456	(259)	(56.8)%
Other income		900	(900)	(100.0)%
Total other income (expense), net	\$ 138	\$ 1,293	\$ (1,155)	(89.3)%

*Interest and Investment Income.* The decrease in interest and investment income of approximately \$259,000 for the year ended December 31, 2012 compared to the year ended December 31, 2011 was due to lower average cash, cash equivalents and investment balances and lower interest rates.

*Other Income.* The decrease in other income for the year ended December 31, 2012 compared to the year ended December 31, 2011 was primarily due to the timing of tax incentives or awards we received. In 2011, we recognized a Life Sciences Tax Incentive Program award of approximately \$0.9 million from the Massachusetts Life Sciences Center.

*Year Ended December 31, 2011 Compared to Year Ended December 31, 2010**Revenue*

	Years Ended December 31,		Change	
	2011	2010	\$	%
	(dollars in thousands)			
Collaborative arrangements revenue	\$ 65,871	\$ 43,857	\$ 22,014	50.2%

*Collaborative Arrangements.* The increase in revenue from collaborative arrangements for the year ended December 31, 2011 compared to the year ended December 31, 2010 was primarily due to an increase in revenue from the achievement of the \$10 million IBS-C NDA acceptance milestone and the achievement of the \$10 million CIC NDA acceptance milestone in our Forest collaboration. In accordance with ASU 2010-17, which we adopted in January 2011, we recognized these substantive

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milestones in their entirety upon their achievement. Other changes in revenue were mostly related to the Almirall license agreement. In June 2011, we revised our estimate to shorten the development period associated with the Almirall license agreement which resulted in approximately \$5.0 million in additional revenue recognized in 2011. This amount is partially offset by the revenue recognized upon achievement of the Phase 3 milestone of \$20.0 million in November 2010. The revenue from this milestone was recorded pre-adoption of ASU 2010-17 and resulted in the recognition of approximately \$3.0 million more in revenue during 2010 than in 2011.

*Cost and Expenses*

	Years Ended December 31,		Change	
	2011	2010	\$	%
(dollars in thousands)				
<b>Cost and expenses:</b>				
Research and development	\$ 86,093	\$ 77,454	\$ 8,639	11.2%
Selling, general and administrative	45,920	27,169	18,751	69.0%
Total cost and expenses	\$ 132,013	\$ 104,623	\$ 27,390	26.2%

*Research and Development Expense.* The increase in research and development expense of approximately \$8.6 million for the year ended December 31, 2011 compared to the year ended December 31, 2010 was primarily due to an increase of approximately \$8.0 million in compensation, benefits, and employee related expenses associated mainly with increased headcount, an increase of approximately \$2.0 million in share-based compensation expense primarily related to our new hire grants and our annual stock option grant made in February 2011, an increase of approximately \$6.0 million in external research costs related to the research and development fees paid in connection with our licensing agreements that are not related to linaclotide, offset by a decrease of approximately \$7.4 million in support of linaclotide, primarily resulting from lower clinical trial and collaboration expenses as we completed the efficacy portion of linaclotide's development program.

*Selling, General and Administrative Expense.* The increase in selling, general and administrative expense of approximately \$18.8 million for the year ended December 31, 2011 compared to the year ended December 31, 2010 was primarily due to an increase of approximately \$7.4 million in compensation, benefits and other employee related expenses associated with increased headcount, an increase of approximately \$2.3 million in share-based compensation expense primarily related to our new hire grants and our annual stock option grant made in February 2011, an increase of approximately \$2.5 million in selling, general and administrative related facilities costs primarily due to increased depreciation expense associated with the amortization of leasehold improvements at our 301 Binney Street facility and improvements in our IT infrastructure, an increase in external consulting costs of approximately \$4.9 million primarily associated with developing the infrastructure to commercialize and support linaclotide and an increase of approximately \$0.9 million in the net expenses from Forest on our collaborative commercial activities.

Table of Contents*Other Income (Expense), Net*

	Years Ended December 31,		Change	
	2011	2010	\$	%
	(dollars in thousands)			
Other income (expense):				
Interest expense	\$ (63)	\$ (196)	\$ 133	67.9%
Interest and investment income	456	614	(158)	(25.7)%
Other income	900	993	(93)	(9.4)%
<b>Total other income (expense), net</b>	<b>\$ 1,293</b>	<b>\$ 1,411</b>	<b>\$ (118)</b>	<b>(8.4)%</b>

*Interest Expense.* The decrease in interest expense of approximately \$0.1 million for the year ended December 31, 2011 compared to the year ended December 31, 2010 was primarily the result of a reduction in long-term debt associated with the payment of all the long-term debt in September 2010.

*Interest and Investment Income.* The decrease in interest and investment income of approximately \$0.2 million for the year ended December 31, 2011 compared to the year ended December 31, 2010 was due to lower average cash, cash equivalents and investment balances.

*Other Income.* The decrease in other income for the year ended December 31, 2011 compared to the year ended December 31, 2010 was primarily due to the timing of tax incentives or awards we received. In 2011, we recognized a Life Sciences Tax Incentive Program award of approximately \$0.9 million from the Massachusetts Life Sciences Center. In 2010, we recognized approximately \$1.0 million in federal grants awarded to us under the Qualifying Therapeutic Discovery Project Program.

*Income Tax (Benefit) Expense.* The approximately \$2.9 million decrease in income tax benefit for the year ended December 31, 2011 compared to the year ended December 31, 2010 is related to intra-period income tax allocation requirements in 2010 for which we recorded a benefit for income taxes from continuing operations of approximately \$2.9 million, offset by an identical income tax provision from discontinued operations for the year ended December 31, 2010. The intra-period income tax allocation considers discontinued operations for purposes of determining the amount of tax benefit that results from our loss from continuing operations. There was no corresponding tax allocation in 2011.

*Net Income (Loss) From Discontinued Operations.* The income from discontinued operations in 2010 is associated with the approximately \$12.2 million gain recognized on the sale of Microbia, partially offset by the tax provision related to the intra-period tax allocation. As a result of the sale of Microbia in September 2010, there were no discontinued operations in 2011.

*Net (Income) Loss From Discontinued Operations Attributable to Noncontrolling Interest.* The approximately \$1.1 million in net income from discontinued operations attributable to noncontrolling interest for the year ended December 31, 2010 was attributable to amounts recognized by Microbia immediately prior to the sale of Microbia in September 2010. As a result of the sale of Microbia in September 2010, there was no corresponding income in 2011.

Table of Contents**Liquidity and Capital Resources**

The following table sets forth the major sources and uses of cash for each of the periods set forth below:

	Years Ended December 31,		
	2012	2011	2010
	(in thousands)		
Net cash provided by (used in):			
Operating activities	\$ (69,633)	\$ (75,237)	\$ (67,899)
Investing activities	30,078	115,065	(213,042)
Financing activities	88,973	3,133	202,956
Net increase (decrease) in cash and cash equivalents	\$ 49,418	\$ 42,961	\$ (77,985)

We have incurred losses since our inception on January 5, 1998 and, as of December 31, 2012, we had an accumulated deficit of approximately \$505.0 million. We have financed our operations to date primarily through the sale of preferred stock and common stock, including approximately \$203.2 million of net proceeds from our IPO, \$85.2 million of net proceeds from our follow-on public offering, payments received under collaborative arrangements, including reimbursement of certain expenses, debt financings and interest earned on investments. At December 31, 2012, we had approximately \$168.2 million of unrestricted cash, cash equivalents and available-for-sale securities. Our cash equivalents include amounts held in money market funds, stated at cost plus accrued interest, which approximates fair market value and amounts held in certain U.S. government sponsored securities. Our available-for-sale securities include amounts held in U.S. Treasury securities and U.S. government sponsored securities. We invest cash in excess of immediate requirements in accordance with our investment policy, which limits the amounts we may invest in any one type of investment and requires all investments held by us to be at least A+ rated, with a remaining maturity when purchased of less than twelve months, so as to primarily achieve liquidity and capital preservation.

During the year ended December 31, 2012, our cash balances increased approximately \$49.4 million. This increase is primarily due to the approximately \$85.2 million in net proceeds from our public stock offering in February 2012, \$85.0 million in milestone payments from Forest upon the FDA's approval of LINZESS in August 2012, the \$25.0 million upfront payment from AstraZeneca and approximately \$4.0 million in proceeds from the exercise of stock options and the issuance of shares pursuant to our employee stock purchase plan. These sources of cash were partially offset by the cash used to operate our business, as we made payments related to, among other things, research and development and selling, general and administrative expenses as we continue to increase headcount and build infrastructure to support the commercial launch of LINZESS in the U.S. and as we continue to invest in our research pipeline. We also invested approximately \$14.0 million in capital expenditures and made payments of approximately \$0.3 million on our capital leases.

On January 4, 2013, we closed a private placement of \$175.0 million in aggregate principal amount of notes due on or before June 15, 2024. As a result of the debt offering, we received aggregate net proceeds, after offering expenses, of approximately \$167.3 million. The notes bear an annual interest rate of 11%, with interest paid quarterly beginning June 15, 2013, and principal expected to be paid quarterly beginning March 15, 2014. After the interest-only period, we will make quarterly payments on the notes equal to the greater of (i) 7.5% of net sales of LINZESS in the U.S. for the preceding quarter, or the synthetic royalty amount, and (ii) accrued and unpaid interest on the notes, or the required interest amount. Principal on the notes will be repaid in an amount equal to the synthetic royalty amount minus the required interest amount, when this is a positive number, until the principal has been paid in full. The notes may be redeemed at any time prior to maturity, in whole or in part, at

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our option at specified redemption premiums. We intend to use the net proceeds from this debt financing to fund our research and development efforts and to support the commercial launch of LINZESS, in addition to general corporate purposes.

**Cash Flows From Operating Activities**

Net cash used in operating activities totaled approximately \$69.6 million for the year ended December 31, 2012. The primary uses of cash were our net loss from continuing operations of approximately \$72.6 million and an increase of approximately \$27.1 million in working capital resulting primarily from a decrease in deferred revenue associated mainly with the recognition of collaborative arrangements revenue from our Forest and Almirall agreements, an increase in inventory for linaclotide API manufactured in preparation for its sales launch in the U.S. and Europe, an increase in prepaid expenses and other current assets due to timing of payments, offset by increases in accounts payable and accrued expenses. These uses of cash were partially offset by non-cash items of approximately \$30.1 million, including \$11.3 million in depreciation and amortization expense of property and equipment, \$17.6 million in share-based compensation expense and \$1.2 million in accretion of discounts and premiums on available-for-sale securities.

Net cash used in operating activities totaled approximately \$75.2 million for the year ended December 31, 2011. The primary uses of cash were our net loss from continuing operations of approximately \$64.9 million and a decrease of approximately \$34.3 million in working capital resulting primarily from changes in deferred revenue associated with the recognition of revenue from our Forest collaboration agreement and our Almirall and Astellas license agreements, as well as the achievement of the milestone associated with the Almirall agreement. These uses of cash were partially offset by non-cash items of approximately \$24.0 million, including \$10.0 million in depreciation and amortization expense of property and equipment, \$11.7 million in share-based compensation expense and \$2.2 million in accretion of discounts and premiums on available-for-sale securities.

Net cash used in operating activities totaled approximately \$67.9 million for the year ended December 31, 2010. The primary uses of cash were our net loss from continuing operations of approximately \$56.4 million, approximately \$6.0 million used in operating activities from discontinued operations and a decrease of approximately \$21.3 million in working capital resulting primarily from changes in deferred revenue associated with the recognition of revenue from our Forest collaboration agreement and our Almirall and Astellas license agreements, as well as the achievement of the milestone associated with the Almirall agreement. These uses of cash were partially offset by non-cash items of approximately \$15.8 million, including \$6.2 million in depreciation and amortization expense of property and equipment, a \$0.5 million loss on disposal of property and equipment, \$7.5 million in share-based compensation expense and \$1.6 million in accretion of discounts and premiums on available-for-sale securities.

**Cash Flows From Investing Activities**

Cash provided by investing activities for the year ended December 31, 2012 totaled approximately \$30.1 million and resulted primarily from the sale and maturity of approximately \$140.8 million in investments. This was partially offset by the purchase of approximately \$96.7 million of securities and the purchase of approximately \$14.0 million of property and equipment, primarily leasehold improvements, associated with the expansion of our 301 Binney Street facility and software to improve our IT infrastructure.

Cash provided by investing activities for the year ended December 31, 2011 totaled approximately \$115.1 million and resulted primarily from the sale and maturity of approximately \$222.3 million in investments. This was partially offset by the purchase of approximately \$97.5 million of securities and the purchase of approximately \$9.7 million of property and equipment, primarily leasehold

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improvements, associated with the expansion of our 301 Binney Street facility and software to improve our IT infrastructure.

Cash used in investing activities for the year ended December 31, 2010 totaled approximately \$213.0 million and resulted primarily from the purchase of approximately \$441.8 million of securities related to the investment of the net proceeds of our IPO and the purchase of approximately \$17.2 million of property and equipment, primarily leasehold improvements, associated with the expansion of our 301 Binney Street facility. These uses of cash were partially offset by the sale and maturity of approximately \$236.5 million in investments and \$9.5 million in proceeds received from DSM for the sale of our interest in Microbia.

**Cash Flows From Financing Activities**

Cash provided by financing activities for the year ended December 31, 2012 totaled approximately \$89.0 million and resulted primarily from \$85.2 million in net proceeds from our public stock offering in February 2012, approximately \$4.0 million in cash provided by stock option exercises and the purchase of shares under the employee stock purchase plan, partially offset by approximately \$0.3 million in cash used for payments on our capital leases.

Cash provided by financing activities for the year ended December 31, 2011 totaled approximately \$3.1 million and resulted primarily from the approximately \$3.4 million in cash provided by stock option exercises and the purchase of shares under the employee stock purchase plan, partially offset by approximately \$0.3 million in cash used for payments on our capital leases.

Cash provided by financing activities for the year ended December 31, 2010 totaled approximately \$203.0 million and resulted primarily from the net proceeds of our IPO of approximately \$203.2 million and approximately \$2.0 million in cash provided by stock option exercises, partially offset by approximately \$2.2 million in cash used for payments of the long term debt, of which approximately \$0.3 million was repayment of debt from discontinued operations.

**Funding Requirements**

While we began commercializing linaclotide in the fourth quarter of 2012, we have not achieved profitability. In August 2012, we received approval for LINZESS in the U.S. and commenced our commercial launch with our collaboration partner, Forest, in December 2012. In November 2012, our European partner, Almirall, received approval for Constella for the treatment of IBS-C in adults, which will be marketed in Europe by Almirall and is expected to become commercially available in certain countries in the first half of 2013. Our partnership with Forest requires total net sales of LINZESS to be reduced by commercial costs incurred by each party, and such resulting net profit or net loss attributable to LINZESS will be shared equally between us and Forest. We will also receive escalating royalties from Almirall for the sales of linaclotide in Europe. We cannot anticipate when, if ever, proceeds generated from sales of LINZESS and Constella will enable the Company to become cash flow positive. We anticipate that we will continue to incur substantial expenses for the next several years as we further develop and commercialize linaclotide in the U.S and in other markets and continue to invest in our pipeline. In addition, we are generally required to make cash expenditures to manufacture linaclotide API in advance of selling it to our collaboration partners and collecting payments for such inventory sales, which may result in significant periodic uses of cash. We believe that our cash on hand as of December 31, 2012, in addition to the net proceeds of \$167.3 million from the debt offering closed in January 2013, will be sufficient to meet our projected operating needs at least through the next twelve months.

Our forecast of the period of time through which our financial resources will be adequate to support our operations, including the underlying estimates regarding the costs to obtain regulatory approval and the costs to commercialize linaclotide in the U.S. and other markets, is a forward-looking

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statement that involves risks and uncertainties, and actual results could vary materially and negatively as a result of a number of factors, including the factors discussed in the "Risk Factors" section of this Annual Report on Form 10-K. We have based our estimates on assumptions that may prove to be wrong, and we could utilize our available capital resources sooner than we currently expect.

Due to the numerous risks and uncertainties associated with the development of our product candidates, we are unable to estimate precisely the amounts of capital outlays and operating expenditures necessary to complete the development of, and to obtain regulatory approval for, linaclotide (other than in the U.S. and E.U.) and our other product candidates for all of the indications for which we believe each product candidate is suited. Our funding requirements will depend on many factors, including, but not limited to, the following:

- the rate of progress and cost of our commercialization activities;
- the expenses we incur in marketing and selling linaclotide and our product candidates;
- the revenue generated by sales of linaclotide and our product candidates;
- the success of our third-party manufacturing activities;
- the time and costs involved in obtaining regulatory approvals for our product candidates;
- the success of our research and development efforts;
- the emergence of competing or complementary developments;
- the costs of filing, prosecuting, defending and enforcing any patent claims and other intellectual property rights;
- the terms and timing of any additional collaborative, licensing or other arrangements that we may establish; and
- the acquisition of businesses, products and technologies.

***Financing Strategy***

We may, from time to time, consider additional funding through a combination of new collaborative arrangements, strategic alliances, and additional equity and debt financings or from other sources. We will continue to manage our capital structure and to consider all financing opportunities, whenever they may occur, that could strengthen our long-term liquidity profile. Any such capital transactions may or may not be similar to transactions in which we have engaged in the past. There can be no assurance that any such financing opportunities will also be available on acceptable terms, if at all.

**Contractual Commitments and Obligations**

Under our collaborative agreements with Forest and AstraZeneca, we share with Forest and AstraZeneca all development and commercialization costs related to linaclotide in the U.S. and China, respectively. The actual amounts that we pay our partners or that partners pay to us will depend on numerous factors outside of our control, including the success of our clinical development efforts with respect to linaclotide, the content and timing of decisions made by the regulators, the reimbursement and competitive landscape around linaclotide and our other product candidates, and other factors described under the heading "Risk Factors."



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Our most significant clinical trial expenditures are to CROs. The contracts with CROs generally are cancellable, with notice, at our option and do not have any significant cancellation penalties. These items are not included in the table below.

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In October 2012, we entered into an amendment to our 301 Binney Street building lease, pursuant to which we will rent 93,000 square feet of additional space in four stages. Each stage will commence no later than December 1, 2013, June 1, 2014, June 1, 2015 and June 1, 2016, respectively. The amendment also extends the term of the entire lease agreement by 24 months.

As of December 31, 2012, we have multiple commercial supply agreements with contract manufacturing organizations for the purchase of linaclotide API and finished drug product. The table below reflects our minimum purchase requirements under these commercial supply agreements, as well as any outstanding non-cancellable purchase orders.

The following table summarizes our contractual obligations at December 31, 2012 (excluding interest):

	Total	Payments Due by Period			More Than 5 Years
		Less Than 1 Year	1 3 Years	3 5 Years	
			(in thousands)		
Commercial supply obligations	\$ 51,750	\$ 16,890	\$ 19,280	\$ 15,580	\$
Capital lease obligations	650	312	338		
Operating lease obligations	70,378	11,517	27,224	31,033	604
Total contractual obligations	\$ 122,778	\$ 28,719	\$ 46,842	\$ 46,613	\$ 604

Our commitment for capital lease obligations principally relates to leased computer and office equipment.

Our commitments for operating leases relate to our lease of office and laboratory space in Cambridge, Massachusetts and our data collocation space in Boston.

In addition to the commitments discussed above, we have commitments to make potential future milestone payments to third parties under certain of our license and collaboration arrangements totaling approximately \$364.0 million, which include \$98.5 million for development milestones and \$265.5 million for regulatory milestones. We are also committed to make potential future milestone payments of up to \$114.5 million per product to one of our collaboration partners, including \$21.5 million for development milestones, \$58.0 million for regulatory milestones and \$35.0 million for sales-based milestones. These milestones primarily include the commencement and results of clinical trials, obtaining regulatory approval in various jurisdictions and the future commercial success of development programs, the outcome and timing of which are difficult to predict and subject to significant uncertainty. In addition to the milestones discussed above, we are obligated to pay royalties on future sales, which are contingent on generating levels of sales of future products that have not been achieved and may never be achieved. Since we are unable to reliably estimate the timing and amounts of such milestone and royalty payments, or whether they will occur at all, these contingent payments have been excluded from the table above. See Note 4, "Collaboration and License Agreements," in the accompanying notes to consolidated financial statements for additional information regarding our license and collaboration arrangements.

**Off-Balance Sheet Arrangements**

We do not have any relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities, that would have been established for the purpose of facilitating off-balance sheet arrangements (as that term is defined in Item 303(a)(4)(ii) of Regulation S-K) or other contractually narrow or limited purposes. As such, we are not exposed to any financing, liquidity, market or credit risk that could arise if we had engaged in those types of relationships. We enter into guarantees in the ordinary course of business related to the guarantee of our own performance and the performance of our subsidiaries.

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**New Accounting Pronouncements**

For a discussion of new accounting pronouncements please refer to Note 2, "Summary of Significant Accounting Policies", to our consolidated financial statements included in this report.

**Item 7A. *Quantitative and Qualitative Disclosures about Market Risk***

**Interest Rate Risk**

We are exposed to market risk related to changes in interest rates. We invest our cash in a variety of financial instruments, principally deposits, securities issued by the U.S. government and its agencies and money market instruments. The goals of our investment policy are preservation of capital, fulfillment of liquidity needs and fiduciary control of cash and investments. We also seek to maximize income from our investments without assuming significant risk.

Our primary exposure to market risk is interest income sensitivity, which is affected by changes in the general level of interest rates, particularly because our investments are in short-term marketable securities. Due to the short-term duration of our investment portfolio and the low risk profile of our investments, an immediate 1% change in interest rates would not have a material effect on the fair market value of our portfolio. Accordingly, we would not expect our operating results or cash flows to be affected to any significant degree by the effect of a sudden change in market interest rates on our investment portfolio.

Recently, there has been concern in the credit markets regarding the value of a variety of mortgage-backed and auction rate securities and the resulting effect on various securities markets. We do not currently have any auction rate securities. We do not believe our cash, cash equivalents and available-for-sale investments have significant risk of default or illiquidity. While we believe our cash, cash equivalents and available-for-sale securities do not contain excessive risk, we cannot provide absolute assurance that in the future our investments will not be subject to adverse changes in market value. In addition, we maintain significant amounts of cash, cash equivalents and available-for-sale securities at one or more financial institutions that are in excess of federally insured limits. Given the current instability of financial institutions, we cannot provide assurance that we will not experience losses on these deposits.

Our capital lease obligations bear interest at a fixed rate and therefore have minimal exposure to changes in interest rates.

**Foreign Currency Risk**

We have no operations outside the U.S. and do not have any foreign currency or other derivative financial instruments.

**Effects of Inflation**

We do not believe that inflation and changing prices over the years ended December 31, 2012, 2011 and 2010 had a significant impact on our results of operations.

**Item 8. *Consolidated Financial Statements and Supplementary Data***

Our consolidated financial statements, together with the independent registered public accounting firm report thereon, appear at pages F-1 through F-51 respectively, of this Annual Report on Form 10-K.

**Item 9. *Changes in and Disagreements with Accountants on Accounting and Financial Disclosure***

None.

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**Item 9A. Controls and Procedures**

**Evaluation of Disclosure Controls and Procedures**

As required by Rule 13a-15(b) of the Exchange Act, our management, including our principal executive officer and our principal financial officer, conducted an evaluation as of the end of the period covered by this Annual Report on Form 10-K of the effectiveness of the design and operation of our disclosure controls and procedures. Based on that evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures are effective at the reasonable assurance level in ensuring that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports we file under the Exchange Act is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate to allow timely decisions regarding required disclosure.

**Management's Report on Internal Control Over Financial Reporting**

Our management is responsible for establishing and maintaining adequate internal control over our financial reporting. Internal control over financial reporting is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act as the process designed by, or under the supervision of, our Chief Executive Officer and Chief Financial Officer, and effected by our board of directors, management and other personnel, to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of our financial statements for external purposes in accordance with generally accepted accounting principles, and includes those policies and procedures that:

- (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of assets;
- (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures are being made only in accordance with the authorizations of management and directors; and
- (3) provide reasonable assurance regarding the prevention or timely detection of unauthorized acquisition, use or disposition of assets that could have a material effect on our financial statements.

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework provided in *Internal Control Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2012.

The effectiveness of our internal control over financial reporting as of December 31, 2012 has been audited by Ernst and Young LLP, an independent registered public accounting firm, as stated in their report, which is included herein.

**Changes in Internal Control**

As required by Rule 13a-15(d) of the Exchange Act, our management, including our principal executive officer and our principal financial officer, conducted an evaluation of the internal control over financial reporting to determine whether any changes occurred during the quarter ended

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December 31, 2012 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. In connection with the FDA's approval and the commercial launch of LINZESS in 2012, we have implemented internal controls over the inventory and net profit or loss sharing accounting treatment for LINZESS. Based on that evaluation, our principal executive officer and principal financial officer concluded no such changes during the quarter ended December 31, 2012 materially affected, or were reasonably likely to materially affect, our internal control over financial reporting, with the exception of the development of internal controls over these processes.

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**Report of Independent Registered Public Accounting Firm**

The Board of Directors and Stockholders of Ironwood Pharmaceuticals, Inc.

We have audited Ironwood Pharmaceuticals, Inc.'s internal control over financial reporting as of December 31, 2012, based on criteria established in Internal Control Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (the COSO criteria). Ironwood Pharmaceuticals, Inc.'s management is responsible for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Controls Over Financial Reporting. Our responsibility is to express an opinion on the company's internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, Ironwood Pharmaceuticals, Inc. maintained, in all material respects, effective internal control over financial reporting as of December 31, 2012, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of Ironwood Pharmaceuticals, Inc. as of December 31, 2012 and 2011, and the related consolidated statements of operations, comprehensive loss, convertible preferred stock and stockholders' equity (deficit), and cash flows for each of the three years in the period ended December 31, 2012 of Ironwood Pharmaceuticals, Inc. and our report dated February 21, 2013 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP

Boston, Massachusetts  
February 21, 2013

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**Item 9B. *Other Information***

None.

Table of Contents**PART III****Item 10. Directors, Executive Officers and Corporate Governance**

We have adopted a code of business conduct and ethics applicable to our directors, executive officers and all other employees. A copy of that code is available on our corporate website at <http://www.ironwoodpharma.com>. Any amendments to the code of ethics and business conduct, and any waivers thereto involving our executive officers, also will be available on our corporate website. A printed copy of these documents will be made available upon request. The content on our website is not incorporated by reference into this Annual Report on Form 10-K.

Certain information regarding our executive officers is set forth at the end of Part I, Item 1 of this Form 10-K under the heading, "Executive Officers of the Registrant." The other information required by this item is incorporated by reference from our proxy statement for our 2013 Annual Meeting of Stockholders.

**Item 11. Executive Compensation**

The information required by this item is incorporated by reference from our proxy statement for our 2013 Annual Meeting of Stockholders.

**Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters**

The information relating to security ownership of certain beneficial owners of our common stock and information relating to the security ownership of our management required by this item is incorporated by reference from our proxy statement for our 2013 Annual Meeting of Stockholders.

The table below sets forth information with regard to securities authorized for issuance under our equity compensation plans as of December 31, 2012. As of December 31, 2012, we had three active equity compensation plans, each of which was approved by our stockholders:

Our Amended and Restated 2005 Stock Incentive Plan;

Our Amended and Restated 2010 Employee, Director and Consultant Equity Incentive Plan; and

Our Amended and Restated 2010 Employee Stock Purchase Plan.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted-average exercise price of outstanding options, warrants, and rights (b)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	19,539,429	\$ 7.75	6,205,854
Equity compensation plans not approved by security holders			
<b>Total</b>	<b>19,539,429</b>	<b>\$ 7.75</b>	<b>6,205,854</b>

**Item 13. Certain Relationships and Related Transactions, and Director Independence**



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The information required by this item is incorporated by reference from our proxy statement for our 2013 Annual Meeting of Stockholders.

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**Item 14. *Principal Accountant Fees and Services***

The information required by this item is incorporated by reference from our proxy statement for our 2013 Annual Meeting of Stockholders.

Table of Contents**PART IV****Item 15. Exhibits and Financial Statement Schedules**

## (a) List of documents filed as part of this report

- (1) Consolidated Financial Statements listed under Part II, Item 8 and included herein by reference.
- (2) Consolidated Financial Statement Schedules  
No schedules are submitted because they are not applicable, not required or because the information is included in the Consolidated Financial Statements or Notes to Consolidated Financial Statements.
- (3) Exhibits

<b>Number</b>	<b>Description</b>	<b>Incorporated by reference herein Form</b>	<b>Date</b>
3.1	Eleventh Amended and Restated Certificate of Incorporation	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
3.2	Fifth Amended and Restated Bylaws	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
4.1	Specimen Class A common stock certificate	Registration Statement on Form S-1, as amended (File No. 333-163275)	January 20, 2010
4.2	Eighth Amended and Restated Investors' Rights Agreement, dated as of September 1, 2009, by and among Ironwood Pharmaceuticals, Inc., the Founders and the Investors named therein	Registration Statement on Form S-1, as amended (File No. 333-163275)	November 20, 2009
4.3	Indenture, dated as of January 4, 2013, by and between Ironwood Pharmaceuticals, Inc., as issuer of the Notes, and U.S. Bank National Association, as initial trustee of the Notes and as Operating Bank	Form 8-K (File No. 001-34620)	January 8, 2013
10.1#	Amended and Restated 2002 Stock Incentive Plan and form agreements thereunder	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.2#	Amended and Restated 2005 Stock Incentive Plan and form agreements thereunder	Registration Statement on Form S-1, as amended (File No. 333-163275)	January 29, 2010
10.3#	Amended and Restated 2010 Employee, Director and Consultant Equity Incentive Plan	Registration Statement on Form S-8, as amended (File No. 333-184396)	October 12, 2012



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Number	Description	Incorporated by reference herein Form	Date
10.3.1#	Form agreement under the 2010 Employee, Director and Consultant Equity Incentive Plan	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
10.4#*	Amended and Restated 2010 Employee Stock Purchase Plan		
10.5#*	Change of Control Severance Benefit Plan		
10.6#	Director Compensation Plan	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.7#	Form of Indemnification Agreement with directors and officers	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.8#	Consulting Agreement, dated as of November 30, 2009, by and between Christopher Walsh and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.9+	Collaboration Agreement, dated as of September 12, 2007, as amended on November 3, 2009, by and between Forest Laboratories, Inc. and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	February 2, 2010
10.9.1*	Amendment No. 2 to the Collaboration Agreement, dated as of January 8, 2013, by and between Forest Laboratories, Inc. and Ironwood Pharmaceuticals, Inc.		
10.10+	License Agreement, dated as of April 30, 2009, by and between Almirall, S.A. and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	February 2, 2010
10.11+	License Agreement, dated as of November 10, 2009, by and among Astellas Pharma, Inc. and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	February 2, 2010
10.12++*	Collaboration Agreement, dated as of October 23, 2012, by and between AstraZeneca AB and Ironwood Pharmaceuticals, Inc.		

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Number	Description	Incorporated by reference herein Form	Date
10.13+	Commercial Supply Agreement, dated as of June 23, 2010, by and among PolyPeptide Laboratories, Inc. and Polypeptide Laboratories (SWEDEN) AB, Forest Laboratories, Inc. and Ironwood Pharmaceuticals, Inc.	Quarterly Report on Form 10-Q (File No. 001-34620)	August 10, 2010
10.14+	Commercial Supply Agreement, dated as of March 28, 2011, by and among Corden Pharma Colorado (f/k/a Roche Colorado Corporation), Ironwood Pharmaceuticals, Inc. and Forest Laboratories, Inc.	Quarterly Report on Form 10-Q (File No. 001-34620)	May 13, 2011
10.15	Lease for facilities at 301 Binney St., Cambridge, MA, dated as of January 12, 2007, as amended on April 9, 2009, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.15.1	Second Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of February 9, 2010, by and Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
10.15.2	Third Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of July 1, 2010, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2011
10.15.3	Fourth Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of February 3, 2011, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2011
10.15.4	Fifth Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of October 18, 2011, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	February 29, 2012

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<b>Number</b>	<b>Description</b>	<b>Incorporated by reference herein Form</b>	<b>Date</b>
10.15.5*	Sixth Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of July 19, 2012, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC		
10.15.6*	Seventh Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of October 30, 2012, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC		
21.1*	Subsidiaries of Ironwood Pharmaceuticals, Inc.		
23.1*	Consent of Independent Registered Public Accounting Firm		
31.1*	Certification of Chief Executive Officer pursuant to Rules 13a-14 or 15d-14 of the Exchange Act		
31.2*	Certification of Chief Financial Officer pursuant to Rules 13a-14 or 15d-14 of the Exchange Act		
32.1	Certification of Chief Executive Officer pursuant to Rules 13a-14(b) or 15d-14(b) of the Exchange Act and 18 U.S.C. Section 1350		
32.2	Certification of Chief Financial Officer pursuant to Rules 13a-14(b) or 15d-14(b) of the Exchange Act and 18 U.S.C. Section 1350		
101.INS	XBRL Instance Document		
101.SCH	XBRL Taxonomy Extension Schema Document		
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document		
101.LAB	XBRL Taxonomy Extension Label Linkbase Database		
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document		

\*

Filed herewith.

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Furnished herewith.

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Confidential treatment granted under 17 C.F.R. §§200.80(b)(4) and 230.406. The confidential portions of this exhibit have been omitted and are marked accordingly. The confidential portions have been provided separately to the SEC pursuant to the confidential treatment request.

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Confidential treatment requested under 17 C.F.R. §§200.80(b)(4) and Rule 24b-2. The confidential portions of this exhibit have been omitted and are marked accordingly. The confidential portions have been provided separately to the SEC pursuant to the confidential treatment request.

#

Management contract or compensatory plan, contract, or agreement.

(b) Exhibits.

The exhibits required by this Item are listed under Item 15(a)(3).

(c) Financial Statement Schedules.

The financial statement schedules required by this Item are listed under Item 15(a)(2).





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<b>Signature</b>	<b>Title</b>	<b>Date</b>
<u>/s/ TERRANCE G. MCGUIRE</u> Terrance G. McGuire	Director	February 21, 2013
<u>/s/ DAVID E. SHAW</u> David E. Shaw	Director	February 21, 2013
<u>/s/ CHRISTOPHER T. WALSH</u> Christopher T. Walsh	Director	February 21, 2013

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**Index to Consolidated Financial Statements of  
Ironwood Pharmaceuticals, Inc.**

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**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholders of  
Ironwood Pharmaceuticals, Inc.

We have audited the accompanying consolidated balance sheets of Ironwood Pharmaceuticals, Inc. as of December 31, 2012 and 2011, and the related consolidated statements of operations, comprehensive loss, convertible preferred stock and stockholders' equity (deficit), and cash flows for each of the three years in the period ended December 31, 2012. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of Ironwood Pharmaceuticals, Inc. at December 31, 2012 and 2011, and the consolidated results of its operations and its cash flows for each of the three years in the period ended December 31, 2012, in conformity with U.S. generally accepted accounting principles.

As discussed in Note 2 to the consolidated financial statements, effective January 1, 2011, the Company adopted Financial Accounting Standards Board Accounting Standards Update No. 2010-17, *Revenue Recognition Milestone Method*.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), Ironwood Pharmaceuticals, Inc.'s internal control over financial reporting as of December 31, 2012, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 21, 2013 expressed an unqualified opinion thereon.

/s/ Ernst & Young LLP

Boston, Massachusetts  
February 21, 2013

Table of Contents**Ironwood Pharmaceuticals, Inc.****Consolidated Balance Sheets****(In thousands)**

	<b>December 31,</b>	
	<b>2012</b>	<b>2011</b>
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 136,700	\$ 87,282
Available-for-sale securities	31,528	76,734
Accounts receivable	457	74
Related party accounts receivable, net	1,030	578
Inventory	6,699	
Prepaid expenses and other current assets	8,026	2,899
<b>Total current assets</b>	<b>184,440</b>	<b>167,567</b>
Restricted cash	7,647	7,647
Property and equipment, net	37,537	33,625
Other assets	283	138
<b>Total assets</b>	<b>\$ 229,907</b>	<b>\$ 208,977</b>
<b>Liabilities and stockholders' equity</b>		
Current liabilities:		
Accounts payable	\$ 14,217	\$ 6,436
Related party accounts payable, net	7,509	
Accrued research and development costs	5,664	7,010
Accrued expenses	21,171	11,122
Current portion of capital lease obligations	261	233
Current portion of deferred rent	2,735	4,042
Current portion of deferred revenue	3,381	36,291
<b>Total current liabilities</b>	<b>54,938</b>	<b>65,134</b>
Capital lease obligations, net of current portion	308	422
Deferred rent, net of current portion	11,593	12,435
Deferred revenue, net of current portion	18,024	21,130
Other liabilities	992	
Commitments and contingencies (Note 11)		
Stockholders' equity:		
Preferred stock, \$0.001 par value, 75,000,000 shares authorized, no shares issued and outstanding at December 31, 2012 and December 31, 2011		
Class A common stock, \$0.001 par value, 500,000,000 shares authorized and 78,253,074 shares issued and outstanding at December 31, 2012 and 61,801,770 shares issued and outstanding at December 31, 2011	78	62
Class B common stock, \$0.001 par value, 100,000,000 shares authorized and 29,512,253 shares issued and outstanding at December 31, 2012 and 38,914,080 shares issued and outstanding at December 31, 2011	30	39
Additional paid-in capital	648,955	542,141
Accumulated deficit	(505,016)	(432,392)
Accumulated other comprehensive income	5	6
<b>Total stockholders' equity</b>	<b>144,052</b>	<b>109,856</b>
<b>Total liabilities and stockholders' equity</b>	<b>\$ 229,907</b>	<b>\$ 208,977</b>

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

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Table of Contents**Ironwood Pharmaceuticals, Inc.****Consolidated Statements of Operations****(In thousands, except share and per share amounts)**

	Years Ended December 31,		
	2012	2011	2010
Collaborative arrangements revenue	\$ 150,245	\$ 65,871	\$ 43,857
Cost and expenses:			
Costs of revenue	965		
Research and development	113,474	86,093	77,454
Selling, general and administrative	92,538	45,920	27,169
Collaboration expense	16,030		
<b>Total cost and expenses</b>	<b>223,007</b>	<b>132,013</b>	<b>104,623</b>
Loss from operations	(72,762)	(66,142)	(60,766)
Other income (expense):			
Interest expense	(59)	(63)	(196)
Interest and investment income	197	456	614
Other income		900	993
<b>Other income (expense), net</b>	<b>138</b>	<b>1,293</b>	<b>1,411</b>
Net loss from continuing operations before income tax (benefit) expense	(72,624)	(64,849)	(59,355)
Income tax (benefit) expense		3	(2,944)
Net loss from continuing operations	(72,624)	(64,852)	(56,411)
Net income from discontinued operations, net of tax provision of \$2,944 in the year ended December 31, 2010			4,551
Net loss	(72,624)	(64,852)	(51,860)
Net income from discontinued operations attributable to noncontrolling interest			(1,121)
<b>Net loss attributable to Ironwood Pharmaceuticals, Inc.</b>	<b>\$ (72,624)</b>	<b>\$ (64,852)</b>	<b>\$ (52,981)</b>
Net income (loss) per share attributable to Ironwood Pharmaceuticals, Inc. basic and diluted:			
Continuing operations	\$ (0.68)	\$ (0.65)	\$ (0.63)
Discontinued operations			0.04
<b>Net loss per share</b>	<b>\$ (0.68)</b>	<b>\$ (0.65)</b>	<b>\$ (0.59)</b>
Weighted average number of common shares used in net income (loss) per share attributable to Ironwood Pharmaceuticals, Inc. basic and diluted	106,402,639	99,874,790	89,653,364

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

Table of Contents**Ironwood Pharmaceuticals, Inc.****Consolidated Statements of Comprehensive Loss****(In thousands)**

	<b>Years Ended December 31,</b>		
	<b>2012</b>	<b>2011</b>	<b>2010</b>
Net Loss	\$ (72,624)	\$ (64,852)	\$ (51,860)
Other comprehensive income (loss):			
Unrealized gains (losses) on available-for-sale securities	(1)	5	1
Total other comprehensive income (loss)	(1)	5	1
Comprehensive Loss	(72,625)	(64,847)	(51,859)
Comprehensive income attributable to non-controlling interest			1,121
Comprehensive loss attributable to Ironwood Pharmaceuticals, Inc.	\$ (72,625)	\$ (64,847)	\$ (52,980)

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

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Table of Contents**Ironwood Pharmaceuticals, Inc.****Consolidated Statements of Convertible Preferred Stock and Stockholders' Equity (Deficit)**

(In thousands, except share amounts)

	Convertible preferred stock (Note 12)		Class A common stock		Class B common stock		Additional paid-in capital	Accumulated deficit	Accumulated other comprehensive income (loss)	Noncontrolling interest	Total stockholders' equity (deficit)
	Shares	Amount	Shares	Amount	Shares	Amount					
Balance at December 31, 2009	69,904,843	\$ 298,350		\$	7,854,602	\$ 8	\$ 12,999	\$ (314,559)	\$	\$ 3,212	\$ (298,340)
Issuance of common stock upon exercise of stock options and employee stock purchase plan			30,438		1,746,184	2	2,021				2,023
Issuance of common stock awards			22,825				259				259
Cancellation of restricted common stock awards					(40,000)						
Conversion of convertible preferred stock into common stock upon initial public offering	(69,904,843)	(298,350)			70,391,620	70	298,280				298,350
Issuance of shares upon initial public offering, net of offering costs of approximately \$12.4 million			19,166,667	19			203,148				203,167
Conversion of Class B common stock to Class A common stock			28,982,159	29	(28,982,159)	(29)					
Share-based compensation expense related to issuance of stock options to non-employees							123				123
Share-based compensation expense related to issuance of stock options to employees and employee stock purchase plan							7,114				7,114
Share-based compensation expense from discontinued operations							59				59
Restricted common stock no longer subject to repurchase							55				55
Decrease in noncontrolling interest in subsidiary							2,933			(4,333)	(1,400)
Unrealized gain on short-term investments									1		1
Net loss								(52,981)		1,121	(51,860)
Balance at December 31, 2010			48,202,089	48	50,970,247	51	526,991	(367,540)	1		159,551
Issuance of common stock upon exercise of stock options and employee stock purchase plan			112,433		1,463,449	2	3,391				3,393
Issuance of common stock awards			2,328				30				30
Cancellation of restricted common stock awards					(27,500)						
Conversion of Class B common stock to Class A common stock			13,484,920	14	(13,484,920)	(14)					
Share-based compensation expense related to issuance of stock options to non-employees							152				152
Share-based compensation expense related to issuance of stock options to employees and employee stock purchase plan							11,550				11,550
Repurchase and retirement of shares of common stock					(7,196)						

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Restricted common stock no longer subject to repurchase	27		27
Unrealized gain on short-term investments		5	5
Net loss	(64,852)		(64,852)

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

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Table of Contents**Ironwood Pharmaceuticals, Inc.****Consolidated Statements of Convertible Preferred Stock and Stockholders' Equity (Deficit) (Continued)**

(In thousands, except share amounts)

	Convertible preferred stock (Note 12)		Class A common stock		Class B common stock		Additional paid-in capital	Accumulated deficit	Accumulated other comprehensive income (loss)	Noncontrolling interest	Total stockholders' equity (deficit)
	Shares	Amount	Shares	Amount	Shares	Amount					
Balance at December 31, 2011			61,801,770	62	38,914,080	39	542,141	(432,392)	6		109,856
Issuance of common stock upon exercise of stock options and employee stock purchase plan			226,658		782,955	1	4,019				4,020
Issuance of common stock awards			2,364				30				30
Issuance of common stock upon public offering, net of offering costs of approximately \$5.9 million			6,037,500	6			85,222				85,228
Conversion of Class B common stock to Class A common stock			10,184,782	10	(10,184,782)	(10)					
Share-based compensation expense related to issuance of stock options to non-employees							60				60
Share-based compensation expense related to issuance of stock options to employees and employee stock purchase plan							17,483				17,483
Restricted common shares subject to repurchase							(7)				(7)
Restricted common stock no longer subject to repurchase							7				7
Unrealized loss on short-term investments									(1)		(1)
Net loss								(72,624)			(72,624)
Balance at December 31, 2012		\$	78,253,074	\$ 78	29,512,253	\$ 30	\$ 648,955	\$ (505,016)	\$ 5		\$ 144,052

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

Table of Contents**Ironwood Pharmaceuticals, Inc.****Consolidated Statements of Cash Flows****(In thousands)**

	<b>Years Ended December 31,</b>		
	<b>2012</b>	<b>2011</b>	<b>2010</b>
<b>Cash flows from operating activities:</b>			
Net loss	\$ (72,624)	\$ (64,852)	\$ (51,860)
Income from discontinued operations			4,551
Net loss from continuing operations	(72,624)	(64,852)	(56,411)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation and amortization	11,325	9,999	6,161
Loss on disposal of property and equipment	20	7	474
Share-based compensation expense	17,573	11,732	7,496
Accretion of discount/premium on investment securities	1,157	2,234	1,619
Changes in assets and liabilities:			
Accounts receivable and related party accounts receivable	(835)	2,243	2,324
Restricted cash		2,833	(2,348)
Prepaid expenses and other current assets	(5,127)	2,421	(2,647)
Inventory	(6,699)		
Other assets	(145)	136	(253)
Accounts payable and accrued expenses	24,241	5,086	2,740
Accrued research and development costs	(1,346)	(1,130)	(4,261)
Deferred revenue	(36,016)	(45,012)	(23,569)
Deferred rent	(2,149)	(934)	6,745
Other liabilities	992		
Net cash used in operating activities from continuing operations	(69,633)	(75,237)	(61,930)
Net cash used in operating activities from discontinued operations			(5,969)
Total net cash used in operating activities	(69,633)	(75,237)	(67,899)
<b>Cash flows from investing activities:</b>			
Purchases of available-for-sale securities	(96,709)	(97,511)	(441,799)
Sales and maturities of available-for-sale securities	140,757	222,254	236,475
Purchases of property and equipment	(13,979)	(9,682)	(17,220)
Proceeds from sale of property and equipment	9	4	1
Proceeds from sale of subsidiary			9,500
Net cash provided by (used in) investing activities from continuing operations	30,078	115,065	(213,043)
Net cash provided by investing activities from discontinued operations			1
Total net cash provided by (used in) investing activities	30,078	115,065	(213,042)
<b>Cash flows from financing activities:</b>			
Proceeds from initial public offering			203,167
Proceeds from issuance of common stock	85,228		
Proceeds from exercise of stock options, stock purchase plan and issuance of restricted stock	4,020	3,393	2,023
Payments on borrowings and capital lease obligations	(275)	(260)	(1,957)
Net cash provided by financing activities from continuing operations	88,973	3,133	203,233
Net cash used in financing activities from discontinued operations			(277)
Total net cash provided by financing activities	88,973	3,133	202,956
Net increase (decrease) in cash and cash equivalents	49,418	42,961	(77,985)

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Cash and cash equivalents, beginning of period	87,282	44,321	122,306
Cash and cash equivalents, end of period	\$ 136,700	\$ 87,282	\$ 44,321

**Supplemental cash flow disclosures:**

Cash paid for interest (includes cash paid by Microbia)	\$ 55	\$ 64	\$ 325
Cash paid for income taxes	\$	\$ 3	\$
Purchases under capital leases	\$ 247	\$ 325	\$ 529
Debt and interest paid by purchaser of subsidiary	\$	\$	\$ 1,075

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

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements**

**1. Nature of Business**

Ironwood Pharmaceuticals, Inc. (the "Company") is an entrepreneurial pharmaceutical company focused on the discovery, development and commercialization of medicines that improve patients' lives.

The Company's lead product, linaclotide, is being marketed in the United States ("U.S.") under the trademarked name of LINZESS . On August 30, 2012, the United States Food and Drug Administration ("FDA") approved LINZESS as a once-daily treatment for adult men and women suffering from irritable bowel syndrome with constipation ("IBS-C") or chronic idiopathic constipation ("CIC"). LINZESS is the first FDA-approved guanylate cyclase type-C ("GC-C") agonist. The Company and its collaboration partner, Forest Laboratories, Inc. ("Forest") began commercial sale of LINZESS in December 2012.

In November 2012, the European Commission granted marketing approval to linaclotide for the symptomatic treatment of moderate to severe IBS-C in adults. Linaclotide will be marketed in Europe (including the Commonwealth of Independent States and Turkey) by Almirall, S.A. ("Almirall") under the trademarked name of Constella®.

Astellas Pharma Inc. ("Astellas"), the Company's partner for Japan and certain other Asian countries, is developing linaclotide for the treatment of patients with IBS-C in its territory. In October 2012, Astellas initiated a double-blind, placebo controlled, dose-ranging Phase 2 clinical trial of linaclotide in adult patients with IBS-C.

In October 2012, the Company entered into a collaboration agreement with AstraZeneca AB ("AstraZeneca") to co-develop and co-commercialize linaclotide for IBS-C in China, Hong Kong and Macau. In May 2012, the Company submitted a Clinical Trial Application ("CTA") to China's State Food and Drug Administration for a Phase 3 trial of linaclotide in patients with IBS-C. The CTA has been approved.

The Company continues to assess alternatives to bring linaclotide to IBS-C and CIC sufferers in the parts of the world outside of its partnered territories.

The Company is exploring development opportunities to strengthen the clinical profile of LINZESS within its indicated population and to expand the product label for additional patient populations and indications. The Company is also exploring the potential for linaclotide-based combination products. As part of this strategy, the Company and Forest initiated a Phase 3b clinical trial to further characterize the effect of linaclotide on abdominal symptoms in patients with CIC.

In addition to exploring further linaclotide development opportunities, the Company's research and development team has generated a pipeline of early development candidates and discovery research in multiple therapeutic areas, including gastrointestinal disease, central nervous system disorders, allergic conditions and cardiovascular disease.

Prior to September 2010, the Company held a majority ownership interest in Microbia, Inc. (formerly known as Microbia Precision Engineering), a subsidiary formed in September 2006. Microbia, Inc. ("Microbia") engaged in a specialty biochemicals business based on a proprietary strain-development platform. In September 2010, the Company sold its interest in Microbia to DSM Holding Company USA, Inc. ("DSM") (Note 2).

The Company was incorporated in Delaware on January 5, 1998. On April 7, 2008, the Company changed its name from Microbia, Inc. to Ironwood Pharmaceuticals, Inc. The Company currently

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**1. Nature of Business (Continued)**

operates in one reportable business segment - human therapeutics. Prior to September 21, 2010, the Company operated in two reportable business segments, human therapeutics and biomanufacturing (Note 17).

The Company has generated an accumulated deficit as of December 31, 2012 of approximately \$505.0 million since inception. In February 2010, the Company completed its initial public offering of Class A common stock and raised a total of approximately \$203.2 million in net proceeds. Additionally, in February 2012, the Company sold 6,037,500 shares of its Class A common stock through a follow-on public offering and raised a total of approximately \$85.2 million in net proceeds (Note 12).

**2. Summary of Significant Accounting Policies**

**Principles of Consolidation**

The accompanying consolidated financial statements include the accounts of Ironwood Pharmaceuticals, Inc. and its wholly owned subsidiaries, Ironwood Pharmaceuticals Securities Corporation and Ironwood Pharmaceuticals GmbH.

During 2006, the Company formed Microbia as a 100% wholly owned subsidiary of the Company. In September 2006, Microbia sold additional equity interests to a third party, which reduced the Company's ownership interest in Microbia to 85% (Note 19). The accompanying consolidated financial statements include the assets, liabilities, revenue, and expenses of Microbia, over which the Company exercised control until September 21, 2010, when the Company sold its interest in Microbia to DSM. The Company recorded noncontrolling interest in its consolidated statements of operations for the ownership interest of the minority owners of Microbia.

All intercompany transactions and balances are eliminated in consolidation.

**Sale of Subsidiary and Discontinued Operations**

On September 21, 2010, the Company sold its interest in Microbia to DSM in exchange for cash proceeds of \$9.5 million, the payment of approximately \$1.1 million of Microbia debt and interest by DSM and future contingent consideration based on the sale of products incorporating Microbia's technology. As a result of the sale of its interest in Microbia, the Company ceased to have any financial interest in Microbia. The Company maintained no further investment in Microbia and recorded a gain on the sale of Microbia in its consolidated statements of operations of approximately \$12.2 million at the time of the sale. The Company determined that Microbia qualified for presentation as discontinued operations and accordingly, the Company classified the assets, liabilities, operations and cash flows of Microbia as discontinued operations for all periods presented.

The agreement with DSM also included future contingent consideration in the form of a royalty on future sales of products incorporating Microbia's technology through the earlier of a) 2024, b) the invalidity of any Microbia patent, or c) the maximum agreed upon amount is reached. The Company's accounting policy is to account for the future contingent consideration, if any, as a gain contingency as the proceeds have not been received and the receipt of royalty income is uncertain. As a result, proceeds will only be recorded in future earnings if and when they are earned. As of December 31, 2012, no amounts have been recorded for the contingent consideration in the Company's consolidated financial statements.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

**Use of Estimates**

The preparation of consolidated financial statements in accordance with generally accepted accounting principles in the U.S. ("GAAP") requires the Company's management to make estimates and judgments that may affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. On an on-going basis, the Company's management evaluates its estimates, including those related to revenue recognition, available-for-sale securities, inventory valuation and related reserves, impairment of long-lived assets, income taxes including the valuation allowance for deferred tax assets, research and development expense, contingencies and share-based compensation. The Company bases its estimates on historical experience and on various other assumptions that are believed to be reasonable, the results of which form the basis for making judgments about the carrying values of assets and liabilities. Actual results may differ from these estimates under different assumptions or conditions. Changes in estimates are reflected in reported results in the period in which they become known.

**Cash and Cash Equivalents**

The Company considers all highly liquid investment instruments with a remaining maturity when purchased of three months or less to be cash equivalents. Investments qualifying as cash equivalents primarily consist of money market funds and U.S. government-sponsored securities. The carrying amount of cash equivalents approximates fair value. The amount of cash equivalents included in cash and cash equivalents was approximately \$113.9 million and \$77.2 million at December 31, 2012 and 2011, respectively.

**Restricted Cash**

The Company is contingently liable under unused letters of credit with a bank, related to the Company's facility lease agreements and credit card arrangements, in the amount of approximately \$7.6 million as of both December 31, 2012 and 2011. As a result, the Company has restricted cash of approximately \$7.6 million as of both December 31, 2012 and 2011, securing these letters of credit. The cash will be restricted until the termination of the leases and credit card arrangements.

**Available-for-Sale Securities**

The Company classifies all short-term investments with a remaining maturity when purchased of greater than three months as available-for-sale. Available-for-sale securities are recorded at fair value, with the unrealized gains and losses reported in other comprehensive income (loss). The amortized cost of debt securities in this category is adjusted for the amortization of premiums and accretion of discounts to maturity. Such amortization is included in interest and investment income. Realized gains and losses, interest, dividends, and declines in value judged to be other than temporary on available-for-sale securities are included in interest and investment income.

The cost of securities sold is based on the specific identification method for purposes of recording realized gains and losses. To determine whether an other-than-temporary impairment exists, the Company considers whether it has the ability and intent to hold the investment until a market price recovery, and whether evidence indicating the recoverability of the cost of the investment outweighs



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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

evidence to the contrary. There were no other-than-temporary impairments for the years ended December 31, 2012, 2011 and 2010.

**Inventory**

Inventory is stated at the lower of cost or market with cost determined under the first-in, first-out basis.

The Company evaluates inventory levels quarterly and any inventory that has a cost basis in excess of its expected net realizable value, inventory that becomes obsolete, inventory in excess of expected sales requirements or inventory that fails to meet commercial sale specifications is written down with a corresponding charge to cost of revenue in the period that the impairment is first identified.

The Company capitalizes inventories manufactured in preparation for initiating sales of a product candidate when the related product candidate is considered to have a high likelihood of regulatory approval and the related costs are expected to be recoverable through sales of the inventories. In determining whether or not to capitalize such inventories, the Company evaluates, among other factors, information regarding the product candidate's safety and efficacy, the status of regulatory submissions and communications with regulatory authorities and the outlook for commercial sales, including the existence of current or anticipated competitive drugs and the availability of reimbursement. In addition, the Company evaluates risks associated with manufacturing the product candidate and the remaining shelf life of the inventories.

Costs associated with developmental products prior to satisfying the inventory capitalization criteria are charged to research and development expense as incurred.

**Concentrations of Suppliers**

The Company relies on third-party manufacturers and its collaboration partners to manufacture the linaclotide active pharmaceutical ingredient ("API") and final linaclotide drug product. Currently, there are two third-party manufacturers approved for the production of the linaclotide API in three facilities. The Company's collaboration partners, except AstraZeneca in China, (Forest, Almirall and Astellas) are responsible for drug product manufacturing of linaclotide into finished product for their respective territories. The Company also has an agreement with another independent third party to serve as a second source of drug product manufacturing of linaclotide for its partnered territories. The Company and AstraZeneca also continue to explore manufacturing alternatives for China. If any of the Company's suppliers were to limit or terminate production or otherwise fail to meet the quality or delivery requirements needed to satisfy the supply commitments, the process of locating and qualifying alternate sources could require up to several months, during which time the Company's production could be delayed. Such delays could have a material adverse effect on the Company's business, financial position and results of operations.

**Accounts Receivable and Related Valuation Account**

The Company makes judgments as to its ability to collect outstanding receivables and provides an allowance for receivables when collection becomes doubtful. Provisions are made based upon a specific review of all significant outstanding invoices and the overall quality and age of those invoices not specifically reviewed. The Company's receivables primarily relate to amounts reimbursed under its

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****2. Summary of Significant Accounting Policies (Continued)**

collaboration and license agreements. The Company believes that credit risks associated with these collaborators are not significant. To date, the Company has not had any write-offs of bad debt, and as such, the Company does not have an allowance for doubtful accounts as of December 31, 2012 and 2011.

**Concentrations of Credit Risk**

Financial instruments that subject the Company to credit risk primarily consist of cash and cash equivalents, restricted cash, available-for-sale securities, and accounts receivable. The Company maintains its cash and cash equivalent balances with high-quality financial institutions and, consequently, the Company believes that such funds are subject to minimal credit risk. The Company's available-for-sale investments primarily consist of U.S. Treasury securities and certain U.S. government sponsored securities and potentially subject the Company to concentrations of credit risk. The Company has adopted an investment policy which limits the amounts the Company may invest in any one type of investment, and requires all investments held by the Company to be at least A+ rated, thereby reducing credit risk exposure.

Accounts receivable, including related party accounts receivable, primarily consist of amounts due under the collaboration agreement with Forest and license agreements with Almirall and Astellas (Note 4) for which the Company does not obtain collateral. Accounts receivable or payable to or from Forest and Almirall are presented as related party transactions on the consolidated balance sheets as both entities own common stock of the Company.

The percentages of revenue from continuing operations recognized from significant customers of the Company in the years ended December 31, 2012, 2011 and 2010 as well as the account receivable balances, net of any payables due, at December 31, 2012 and 2011 are included in the following table:

	Accounts Receivable		Revenue		
	December 31,		Years Ended December 31,		
	2012	2011	2012	2011	2010
<b>Collaborative Partner:</b>					
Forest	%	86%	67%	64%	50%
Almirall	69%	3%	14%	31%	43%
Astellas	31%	11%	3%	5%	7%
AstraZeneca	%	%	16%	%	%

As of December 31, 2012, the Company is in a net payable position with Forest; as such, there is no accounts receivable due from Forest as of December 31, 2012.

Tate & Lyle Investments, Ltd. ("T&L") accounted for approximately 98% of the Company's revenue from discontinued operations for the year ended December 31, 2010. For the years ended December 31, 2012, 2011 and 2010, no additional customers accounted for more than 10% of the Company's revenue from continuing operations.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

**Revenue Recognition**

The Company's revenue is generated through collaborative research and development and licensing agreements. The terms of these agreements contain multiple deliverables which may include (i) licenses, (ii) research and development activities, including participation on joint steering committees, and (iii) the manufacture of finished drug product, API, or development materials for the collaborative partner which are reimbursed at a contractually determined rate. To date, the Company's collaborative research and development and licensing agreements have included only the license to develop and commercialize linaclotide, the Company's first GC-C agonist. Non-refundable payments to the Company under these agreements may include (i) up-front license fees, (ii) payments for research and development activities, (iii) payments for the manufacture of finished drug product, API, or development materials, (iv) payments based upon the achievement of certain milestones, and (v) royalties on product sales. Additionally, the Company may receive its share of the net profits or bear its share of the net losses from the sale of linaclotide in the U.S. and China, through its collaborations with Forest and AstraZeneca, respectively. In addition, prior to September 2010, the Company generated services revenue through agreements that generally provided for fees for research and development services rendered.

At December 31, 2012, the Company had collaboration and license agreements with Forest, Almirall, Astellas and AstraZeneca. Refer to Note 4, "Collaboration and License Agreements," for additional discussion of these agreements.

Agreements Entered into Prior to January 1, 2011

For arrangements that include multiple deliverables, the Company follows the provisions of the Accounting Standards Codification ("ASC") Topic 605-25, *Revenue Recognition Multiple-Element Arrangements* ("ASC 605-25"), in accounting for these agreements. Under ASC 605-25, the Company was required to identify the deliverables included within the agreement and evaluate which deliverables represent separate units of accounting. Collaborative research and development and licensing agreements that contained multiple deliverables were divided into separate units of accounting if certain criteria were met, as follows:

Delivered element(s) had value to the collaborator on a standalone basis,

There was objective and reliable evidence of the fair value of the undelivered obligation(s), and

If the arrangement included a general right of return relative to the delivered item(s), delivery or performance of the undelivered item(s) was considered probable and substantially within the Company's control.

The Company allocated arrangement consideration among the separate units of accounting either on the basis of each unit's respective fair value or using the residual method, and applied the applicable revenue recognition criteria to each of the separate units. If the separation criteria are not met, revenue of the combined unit of accounting is recorded based on the method appropriate for the last delivered item. The Company recognizes revenue when there is persuasive evidence that an arrangement exists, services have been rendered or delivery has occurred, the price is fixed or determinable, and collection is reasonably assured.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

*Up-Front License Fees*

The Company recognizes revenue from nonrefundable, up-front license fees on a straight-line basis over the contracted or estimated period of performance, which is typically the period over which the research and development is expected to occur or manufacturing services are expected to be provided. Accordingly, the Company is required to make estimates regarding the drug development and commercialization timelines for drugs and drug candidates being developed pursuant to the applicable agreement. The determination of the length of the period over which to recognize the revenue is subject to judgment and estimation and can have an impact on the amount of revenue recognized in a given period. Quarterly, the Company reassesses its period of substantial involvement over which the Company amortizes its up-front license fees and makes adjustments as appropriate. During the year ended December 31, 2012, the Company's estimates regarding the period of performance under its collaborative research and development and licensing agreements did not change; however, they have changed in the past and may change in the future. In the event that a license were to be terminated, the Company would recognize as revenue any portion of the up-front fee that had not previously been recorded as revenue, but was classified as deferred revenue at the date of such termination. At December 31, 2012, only a portion of Astellas' up-front license fee remains deferred as the period of performance under the Forest and Almirall arrangements ended in the year ended December 31, 2012.

Agreements Entered into or Materially Modified on or after January 1, 2011

Effective January 1, 2011, the Company adopted ASU No. 2009-13, *Multiple-Deliverable Revenue Arrangements* ("ASU 2009-13"), on a prospective basis. ASU 2009-13 amends ASC 605-25 to provide updated revenue recognition guidance on whether multiple deliverables in an arrangement exist, how multiple deliverables in an arrangement should be separated and how the arrangement consideration should be allocated.

When evaluating multiple element arrangements under ASU 2009-13, the Company considers whether the deliverables under the arrangement represent separate units of accounting. This evaluation requires subjective determinations and requires management to make judgments about the individual deliverables and whether such deliverables are separable from the other aspects of the contractual relationship. In determining the units of accounting, management evaluates certain criteria, including whether the deliverables have standalone value, based on the consideration of the relevant facts and circumstances for each arrangement. Factors considered in this determination include the research, manufacturing and commercialization capabilities of the partner and the availability of peptide research and manufacturing expertise in the general marketplace. In addition, the Company considers whether the collaborator can use the license or other deliverables for their intended purpose without the receipt of the remaining elements, and whether the value of the deliverable is dependent on the undelivered items and whether there are other vendors that can provide the undelivered items.

The consideration received is allocated among the separate units of accounting using the relative selling price method, and the applicable revenue recognition criteria are applied to each of the separate units.

The Company determines the estimated selling price for deliverables using vendor-specific objective evidence ("VSOE") of selling price, if available, third-party evidence ("TPE") of selling price if VSOE is not available, or best estimate of selling price ("BESP") if neither VSOE nor TPE is

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

available. Determining the BESP for a deliverable requires significant judgment. The Company uses BESP to estimate the selling price for licenses to the Company's proprietary technology, since the Company often does not have VSOE or TPE of selling price for these deliverables. In those circumstances where the Company utilizes BESP to determine the estimated selling price of a license to the Company's proprietary technology, the Company considers market conditions as well as entity-specific factors, including those factors contemplated in negotiating the agreements as well as internally developed models that include assumptions related to the market opportunity, estimated development costs, probability of success and the time needed to commercialize a product candidate pursuant to the license. In validating the Company's BESP, the Company evaluates whether changes in the key assumptions used to determine the BESP will have a significant effect on the allocation of arrangement consideration between multiple deliverables.

*Up-Front License Fees*

When management believes the license to its intellectual property has stand-alone value, the Company generally recognizes revenue attributed to the license upon delivery. When management believes the license to its intellectual property does not have stand-alone value from the other deliverables to be provided in the arrangement, the Company generally recognizes revenue attributed to the license on a straight-line basis over the Company's contractual or estimated performance period, which is typically the term of the Company's research and development obligations.

Milestones

At the inception of each arrangement that includes pre-commercial milestone payments, the Company evaluates whether each milestone is substantive and at risk to both parties on the basis of the contingent nature of the milestone. This evaluation includes an assessment of whether (a) the consideration is commensurate with either (1) the entity's performance to achieve the milestone, or (2) the enhancement of the value of the delivered item(s) as a result of a specific outcome resulting from the entity's performance to achieve the milestone, (b) the consideration relates solely to past performance, and (c) the consideration is reasonable relative to all of the deliverables and payment terms within the arrangement. The Company evaluates factors such as the scientific, clinical, regulatory, commercial and other risks that must be overcome to achieve the respective milestone, the level of effort and investment required and whether the milestone consideration is reasonable relative to all deliverables and payment terms in the arrangement in making this assessment. Substantive pre-commercial milestones are due to the Company upon the initiation of a Phase 3 study for linaclotide in Japan and upon the filing and approval of the Japanese equivalent of an NDA with the relevant regulatory authority in Japan.

Prior to January 1, 2011, in those circumstances where a substantive milestone was achieved, collection of the related receivable was reasonably assured and the Company had remaining obligations to perform under the collaboration arrangement, the Company recognized as revenue on the date the milestone was achieved an amount equal to the applicable percentage of the performance period that had elapsed as of the date the milestone was achieved, with the balance being deferred and recognized on a straight-line basis over the remaining period of performance.

Effective January 1, 2011, the Company adopted Accounting Standards Update ("ASU") No. 2010-17, *Revenue Recognition Milestone Method* ("ASU 2010-17") on a prospective basis. Under

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

ASU 2010-17, in those circumstances where a substantive milestone is achieved and collection of the related receivable is reasonably assured, the Company recognizes revenue related to the milestone in its entirety in the period in which the milestone is achieved. Milestone payments received prior to the adoption of ASU 2010-17 continue to be recognized over the remaining period of performance.

Milestones that are not considered substantive are recognized on a straight-line basis over the remaining period of performance. Commercial milestones are accounted for as royalties and are recorded as revenue upon achievement of the milestone, assuming all other revenue recognition criteria are met.

For certain of the Company's arrangements, particularly the license agreement with Almirall, it is required that taxes be withheld on its payments. The Company has adopted a policy to recognize revenue net of these tax withholdings.

Net Profit or Net Loss Sharing

In accordance with ASC 808 Topic, *Collaborative Arrangements*, and ASC 605-45, *Principal Agent Considerations*, the Company considers the nature and contractual terms of the arrangement and the nature of the Company's business operations to determine the classification of the transactions under the Company's collaboration agreements. The Company records revenue transactions gross in the consolidated statements of operations if it is deemed the principal in the transaction, which includes being the primary obligor and having the risks and rewards of ownership.

The Company records its share of the net profits or net losses from the sales of LINZESS as recorded by Forest on a net basis and presents the settlement payments as collaborative arrangements revenue or collaboration expense, as applicable, as the Company is not the primary obligor and does not have the risks and rewards of ownership in the collaboration agreement with Forest. Development costs for LINZESS that are incurred by the Company are recorded in research and development expense. Reimbursement from Forest for development costs, which the Company shares equally with Forest, are recorded as a reduction to research and development expense in the consolidated statement of operations. Selling and marketing costs for LINZESS that are incurred by the Company are recorded in selling, general and administrative expense. The Company and Forest settle the cost sharing quarterly, such that the Company's statement of operations reflects 50% of the pre-tax net profit or loss generated from sales of LINZESS in the U.S. In 2012, the Company has classified payments to Forest for its 50% share of the pre-tax net loss from the sales of LINZESS as collaboration expense in the consolidated statement of operations. Prior to 2012, selling and marketing cost-sharing payments presented within selling, general and administrative expenses were not material. Payments from Forest will be classified as collaboration revenue in the Company's statement of operations.

The Company recognizes its share of the pre-tax commercial net profit or net loss generated from the sales of LINZESS in the U.S. in the period the product sales are recorded by Forest and related cost of product sales and selling and marketing expenses are incurred by the Company and its collaboration partner. These amounts are partially determined based on amounts provided by Forest and involve the use of estimates and judgments, such as product sales allowances and accruals related to prompt payment discounts, chargebacks, governmental and contractual rebates, wholesaler fees, product returns, and co-payment assistance costs, which could be adjusted based on actual results in the

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

future. The Company is highly dependent on Forest for timely and accurate information regarding any net revenues realized from sales of LINZESS and the costs incurred in selling it, in order to accurately report its results of operations. For the periods covered in the consolidated financial statements presented, there have been no significant or material changes to prior period estimates of revenues, cost of revenue or selling and marketing expenses associated with the sales of LINZESS in the U.S. However, if the Company does not receive timely and accurate information or incorrectly estimates activity levels associated with the collaboration at a given point in time, the Company could be required to record adjustments in future periods.

Other

The Company produces finished drug product, API and development materials for its collaborators. The Company recognizes revenue on finished drug product, API and development materials when the material has passed all quality testing required for collaborator acceptance, delivery has occurred, title and risk of loss have transferred to the collaborator, the price is fixed or determinable, and collection is reasonably assured. As it relates to development materials and API produced for Almirall and Astellas, the Company is reimbursed at a contracted rate. Such reimbursements are considered as part of revenue generated pursuant to the Almirall and Astellas license agreements and are presented as collaborative arrangements revenue. Any finished drug product, API and development materials currently produced for Forest or AstraZeneca are recognized in accordance with the cost-sharing provisions of the Forest and AstraZeneca collaboration agreements, respectively.

**Cost of Revenue**

Cost of revenue is recognized upon shipment of linaclotide API to certain of the Company's collaboration partners and consists of the costs of producing such API. The costs of API were primarily recorded as research and development expenses in the periods prior to July 1, 2012. As of December 31, 2012, the previously expensed API that is commercially sellable has been substantially utilized.

**Research and Development Costs**

The Company expenses research and development costs to operations as incurred. The Company defers and capitalizes nonrefundable advance payments made by the Company for research and development activities until the related goods are received or the related services are performed.

Research and development expenses are comprised of costs incurred in performing research and development activities, including salary and benefits; share-based compensation expense; laboratory supplies and other direct expenses; facilities expenses; overhead expenses; contractual services, including clinical trial and related clinical manufacturing expenses, including supply chain development; and other outside expenses. As a result of the sale of the Company's interest in Microbia in September 2010, costs of revenue related to the Microbia services contracts and costs associated with Microbia's research and development activities are included in net income from discontinued operations.

The Company has entered into collaboration agreements with Forest and AstraZeneca pursuant to which it shares research and development expenses with the collaborators. The Company records

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

expenses incurred under the collaboration arrangements for such work as research and development expense. Because the collaboration arrangements are cost-sharing arrangements, the Company concluded that when there is a period during the collaboration arrangements during which the Company receives payments from Forest or AstraZeneca, the Company records the payments by Forest or AstraZeneca for their share of the development effort as a reduction of research and development expense. Payments to Forest or AstraZeneca are recorded as incremental research and development expense.

**Selling, General and Administrative Expenses**

The Company expenses selling, general and administrative costs to operations as incurred. Selling, general and administrative expense consists primarily of compensation, benefits and other employee related expenses for personnel in our administrative, finance, legal, information technology, business development, commercial, sales, marketing and human resource functions. Other costs include the legal costs of pursuing patent protection of our intellectual property, general and administrative related facility costs and professional fees for accounting and legal services.

**Share-Based Compensation**

The Company's stock-based compensation programs grant awards which have included stock awards, restricted stock, and stock options. Share-based compensation is recognized as an expense in the financial statements based on the grant date fair value. For awards that vest based on service conditions, the Company uses the straight-line method to allocate compensation expense to reporting periods. The grant date fair value of options granted is calculated using the Black-Scholes option-pricing model, which requires the use of subjective assumptions including volatility and expected term, among others.

The Company records the expense for stock option grants subject to performance-based milestone vesting using the accelerated attribution method over the remaining service period when management determines that achievement of the milestone is probable. Management evaluates when the achievement of a performance-based milestone is probable based on the relative satisfaction of the performance conditions as of the reporting date.

The Company records the expense of services rendered by non-employees based on the estimated fair value of the stock option using the Black-Scholes option-pricing model. The fair value of unvested non-employee awards is remeasured at each reporting period and expensed over the vesting term of the underlying stock options.

**Patent Costs**

The Company incurred and recorded as operating expense legal and other fees related to patents of approximately \$3.5 million, \$2.2 million and \$1.9 million for the years ended December 31, 2012, 2011 and 2010, respectively. These costs were charged to selling, general and administrative expenses as incurred.



Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****2. Summary of Significant Accounting Policies (Continued)****Noncontrolling Interest**

Noncontrolling interest represents the noncontrolling stockholder's proportionate share of equity and net income or net loss of the Company's former consolidated subsidiary, Microbia. On September 21, 2010, the Company sold its interest in Microbia, resulting in the deconsolidation of its former subsidiary bringing the noncontrolling interest balance to zero. Immediately prior to the sale, the Company converted certain intercompany debt and payables into preferred stock of Microbia, which resulted in an approximately \$2.9 million decrease in the noncontrolling interest. Prior to the sale of Microbia, the noncontrolling stockholder's proportionate share of the equity in Microbia was reflected as noncontrolling interest in the Company's consolidated balance sheets as a component of stockholders' equity (deficit). The proportionate share of the net loss attributable to noncontrolling interest is reflected in the accompanying consolidated statements of operations.

**Net Income (Loss) Per Share**

The Company calculates basic net income (loss) per common share and diluted net loss per common share by dividing the net income (loss) by the weighted average number of common shares outstanding during the period. Diluted net income per common share is computed by dividing net income by the diluted number of shares outstanding during the period. Except where the result would be antidilutive to net income, diluted net income per share is computed assuming the exercise of common stock options and the vesting of restricted stock (using the treasury stock method), as well as their related income tax effects. The Company allocates undistributed earnings between the classes on a one-to-one basis when computing net income (loss) per share. As a result, basic and diluted net income (loss) per Class A and Class B shares are equivalent.

**Property and Equipment**

Property and equipment, including leasehold improvements, are recorded at cost, and are depreciated when placed into service using the straight-line method based on their estimated useful lives as follows:

<b>Asset Description</b>	<b>Estimated Useful Life (In Years)</b>
Laboratory equipment	5
Computer and office equipment	3
Furniture and fixtures	7
Software	3

Included in property and equipment are certain costs of software obtained for internal use. Costs incurred during the preliminary project stage are expensed as incurred, while costs incurred during the application development stage are capitalized and amortized over the estimated useful life of the software. The Company also capitalizes costs related to specific upgrades and enhancements when it is probable the expenditures will result in additional functionality. Maintenance and training costs related to software obtained for internal use are expensed as incurred.

Leasehold improvements are amortized over the shorter of the estimated useful life of the asset or the lease term. Costs for capital assets not yet placed into service have been capitalized as construction

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

in progress, and will be depreciated in accordance with the above guidelines once placed into service. Maintenance and repair costs are expensed as incurred.

**Income Taxes**

The Company provides for income taxes under the liability method. Deferred tax assets and liabilities are determined based on differences between financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates in effect when the differences are expected to reverse. Deferred tax assets are reduced by a valuation allowance to reflect the uncertainty associated with their ultimate realization.

The Company accounts for uncertain tax positions recognized in the consolidated financial statements by prescribing a more-likely-than-not threshold for financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return.

**Impairment of Long-Lived Assets**

The Company regularly reviews the carrying amount of its long-lived assets to determine whether indicators of impairment may exist, which warrant adjustments to carrying values or estimated useful lives. If indications of impairment exist, projected future undiscounted cash flows associated with the asset are compared to the carrying amount to determine whether the asset's value is recoverable. If the carrying value of the asset exceeds such projected undiscounted cash flows, the asset will be written down to its estimated fair value. There were no indicators of impairment at December 31, 2012 or 2011.

**Comprehensive Income (Loss)**

Comprehensive income (loss) is defined as the change in equity of a business enterprise during a period from transactions, and other events and circumstances from non-owner sources and currently consists of net loss and changes in unrealized gains and losses on available-for-sale securities.

**Segment Information**

Operating segments are components of an enterprise for which separate financial information is available and is evaluated regularly by the Company's chief operating decision-maker in deciding how to allocate resources and in assessing performance. The Company currently operates in one reportable business segment human therapeutics.

Prior to the sale of its interest in Microbia in September 2010, the Company had two reportable business segments: human therapeutics and biomanufacturing (Note 17). Revenue from the Company's human therapeutics segment is shown in the consolidated statements of operations as collaborative arrangements revenue. Revenue from the Company's biomanufacturing segment is presented as a component of the net income (loss) from discontinued operations.

**New Accounting Pronouncements**

From time to time, new accounting pronouncements are issued by the FASB or other standard setting bodies that are adopted by the Company as of the specified effective date. Unless otherwise discussed, the Company believes that the impact of recently issued standards that are not yet effective

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**2. Summary of Significant Accounting Policies (Continued)**

will not have a material impact on its consolidated financial position or results of operations upon adoption.

*Recently Adopted Accounting Standards*

In May 2011, the FASB issued ASU No. 2011-04, *Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs* ("ASU 2011-04"). ASU 2011-04 amends ASC 820, *Fair Value Measurement*, to ensure that fair value has the same meaning in GAAP and International Financial Reporting Standards ("IFRS") and improves the comparability of the fair value measurement and disclosure requirements in GAAP and IFRS. ASU 2011-04 applies to all entities that measure assets, liabilities or instruments classified in shareholder's equity at fair value, or provide fair value disclosures for items not recorded at fair value. ASU 2011-04 results in common fair value measurement and disclosure requirements in U.S. GAAP and IFRS. Consequently, ASU 2011-04 changes the wording used to describe many of the requirements in U.S. GAAP for measuring fair value and for disclosing information about fair value measurements. For many of the requirements, ASU 2011-04 will not result in a change in the application of the requirements in ASC 820. Some of the requirements in ASU 2011-04 clarify the FASB's intent about the application of existing fair value measurement requirements. Other requirements change a particular principle or requirement for measuring fair value or for disclosing information about fair value measurements. ASU 2011-04 is effective for public companies for interim and annual periods beginning after December 15, 2011 and should be applied prospectively. Early application is not permitted. On January 1, 2012, the Company adopted ASU 2011-04 on a prospective basis. The adoption did not have a material impact on the Company's consolidated financial position or results of operations.

In June 2011, the FASB issued ASU No. 2011-05, *Presentation of Comprehensive Income* ("ASU 2011-05") which is intended to facilitate the convergence of U.S. GAAP and IFRS as well as to increase the transparency of items reported in other comprehensive income. As a result of ASU 2011-05, all nonowner changes in stockholders' equity are required to be presented in a single continuous statement of comprehensive income or in two separate but consecutive statements. The option to present other comprehensive income in the statement of changes in equity has been eliminated. ASU 2011-05 is effective for public companies for fiscal years, and interim periods within those years, beginning after December 15, 2011 and should be applied retrospectively. In December 2011, the FASB issued ASU No. 2011-12, *Deferral of the Effective Date for Amendments to the Presentation of Reclassifications of Items Out of Accumulated Other Comprehensive Income in Accounting Standards Update No. 2011-05* ("ASU 2011-12") which defers the effective date of the provisions of ASU 2011-05 pertaining to the presentation of reclassification adjustments out of accumulated other comprehensive income. All other requirements in ASU 2011-05 are not affected by ASU 2011-12. ASU 2011-12 is effective for public companies for fiscal years, and interim periods within those years, beginning after December 15, 2011. On January 1, 2012, the Company adopted ASU 2011-05 and ASU 2011-12 on a retrospective basis. The adoption did not have a material impact on the Company's consolidated financial position or results of operations since these standards impact presentation only.

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****3. Net Loss Per Share**

The following table sets forth the computation of basic and diluted net loss per share (in thousands, except per share amounts):

	Years Ended December 31,		
	2012	2011	2010
<b>Numerator:</b>			
Net loss from continuing operations	\$ (72,624)	\$ (64,852)	\$ (56,411)
Net income from discontinued operations			4,551
Less: Net income from discontinued operations attributable to noncontrolling interest			(1,121)
Net income from discontinued operations attributable to Ironwood Pharmaceuticals, Inc.			3,430
Net loss attributable to Ironwood Pharmaceuticals, Inc.	\$ (72,624)	\$ (64,852)	\$ (52,981)
<b>Denominator:</b>			
Weighted average number of common shares used in net loss per share attributable to Ironwood Pharmaceuticals, Inc. basic and diluted	106,402,639	99,874,790	89,653,364
Net loss per share associated with continuing operations basic and diluted	\$ (0.68)	\$ (0.65)	\$ (0.63)
Net income per share from discontinued operations attributable to Ironwood Pharmaceuticals, Inc. basic and diluted			0.04
Net loss per share attributable to Ironwood Pharmaceuticals, Inc. basic and diluted	\$ (0.68)	\$ (0.65)	\$ (0.59)

The following potentially dilutive securities have been excluded from the computation of diluted weighted average shares outstanding as of December 31, 2012, 2011 and 2010 as they would be anti-dilutive:

	Years Ended December 31,		
	2012	2011	2010
Options to purchase common stock	19,539,429	16,424,500	14,603,229
Shares subject to repurchase	80,230	160,413	284,960
	19,619,659	16,584,913	14,888,189

The number of shares issuable under the Company's employee stock purchase plan that were excluded from the calculation of diluted weighted average shares outstanding because their effects would be anti-dilutive was insignificant.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements**

**Forest Laboratories, Inc.**

In September 2007, the Company entered into a collaboration agreement with Forest to develop and commercialize linaclotide for the treatment of IBS-C, CIC and other gastrointestinal conditions in North America. Under the terms of this collaboration agreement, the Company shares equally with Forest all development costs as well as future net profits or losses from the development and sale of linaclotide in the U.S. The Company will also receive royalties in the mid-teens based on net sales in Canada and Mexico. Forest is solely responsible for the further development, regulatory approval and commercialization of linaclotide in those countries and funding any costs. In September 2012, Forest sublicensed the commercialization rights in Mexico to Almirall. The Company retained the rights to develop and commercialize linaclotide outside of North America. Forest made non-refundable, up-front payments totaling \$70.0 million to the Company in order to obtain rights to linaclotide in North America. Because the license to jointly develop and commercialize linaclotide did not have a standalone value without research and development activities provided by the Company, the Company recorded the up-front license fee as collaborative arrangements revenue on a straight-line basis through September 30, 2012, the period over which linaclotide was jointly developed under the collaboration. The collaboration agreement also includes contingent milestone payments, as well as a contingent equity investment, based on the achievement of specific development and commercial milestones. These payments, including the up-front license fee, could total up to \$330.0 million if certain development and sales milestones are achieved for linaclotide. At December 31, 2012, \$205 million in license fees and development milestone payments had been received by the Company, as well as a \$25.0 million equity investment in the Company's capital stock. The Company can also achieve up to approximately \$100.0 million in a sales related milestone if certain conditions are met.

The collaboration agreement included a contingent equity investment, in the form of a forward purchase contract, which required Forest to purchase shares of the Company's convertible preferred stock upon achievement of a specific clinical milestone. Based on the Company's evaluation, this financial instrument was considered an asset or liability, which was required to be carried at fair value. At the inception of the arrangement, the Company valued the contingent equity investment and recorded a \$9.0 million asset and incremental deferred revenue. The \$9.0 million of incremental deferred revenue was recognized as revenue on a straight-line basis over the period of the Company's continuing involvement. At September 30, 2012, the incremental deferred revenue was fully amortized. In July 2009, the Company achieved the clinical milestone triggering the equity investment and reclassified the forward purchase contract as a reduction to convertible preferred stock. The Company issued the 2,083,333 shares to Forest on September 1, 2009.

The Company has achieved all six development milestones under this agreement. In September 2008 and July 2009, the Company achieved development milestones which triggered \$10.0 million and \$20 million milestone payments, respectively. These development milestones were recognized as revenue on a straight-line basis over the period of the Company's continuing involvement, which ended in September 2012. In October 2011, the Company achieved two development milestones upon the FDA's acceptance of the linaclotide NDA for both IBS-C and CIC and received milestone payments of \$20.0 million from Forest. In August 2012, the Company achieved two additional development milestones upon the FDA's approval of the linaclotide NDA for both IBS-C and CIC and received milestone payments of \$85.0 million from Forest in September 2012, accordingly. In accordance with ASU 2010-17, adopted in January 2011, the last four development milestones were recognized as

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****4. Collaboration and License Agreements (Continued)**

revenue in their entirety upon achievement. Milestone payments received from Forest upon the achievement of sales targets will be recognized as revenue as earned.

The Company recognized revenue from the Forest collaboration agreement totaling approximately \$100.4 million, \$41.8 million and \$21.8 million during the years ended December 31, 2012, 2011 and 2010, respectively.

As a result of the cost-sharing arrangements under the collaboration, the Company recognized approximately \$2.1 million in incremental research and development expense during the year ended December 31, 2012 and offset approximately \$7.9 million and \$15.1 million against research and development expense during the years ended December 31, 2011 and 2010, respectively.

The Company receives 50% of the net profits and bears 50% of the net losses from the commercial sale of LINZESS in the U.S., provided, however, that if either party provides fewer details in a particular year than it is contractually required to provide, such party's share of the net profits will be reduced as stipulated by the collaboration agreement. Net profits or net losses consist of net sales to third-party customers and sublicense income in the U.S. less the cost to manufacture LINZESS as well as distribution, selling, and marketing expenses. Net sales are calculated and recorded by Forest and include gross sales net of discounts, allowances, sales taxes, freight and insurance charges, and other applicable deductions.

The Company and Forest began commercial sale of LINZESS in December 2012. The following table presents the amounts recorded by the Company in the year ended December 31, 2012 (in thousands):

	<b>Year Ended December 31, 2012</b>
Collaboration expense	\$ 16,030
Selling and marketing costs incurred by Ironwood <sup>(1)</sup>	5,092
<b>Ironwood's share of net loss</b>	<b>\$ 21,122</b>

(1) Includes only selling and marketing costs attributable to the cost-sharing arrangement with Forest.

Prior to 2012, selling and marketing cost-sharing payments presented within selling, general and administrative expenses were not material.

**Almirall, S.A.**

In April 2009, the Company entered into a license agreement with Almirall for European rights to develop and commercialize linaclotide for the treatment of IBS-C, CIC and other gastrointestinal conditions. Under the terms of the license agreement, Almirall is responsible for the expenses associated with the development and commercialization of linaclotide in the European territory. The license agreement requires the Company to participate on a joint development committee over linaclotide's development period. In May 2009, the Company received a \$38.0 million payment from Almirall representing a \$40.0 million non-refundable up-front payment net of foreign withholding taxes. The Company elected to record the non-refundable up-front payment net of taxes withheld. The

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements (Continued)**

Company recognized the up-front license fee as revenue on a straight-line basis over the Company's estimate of the period over which linaclotide would be developed under the license agreement for the European territory. In June 2011, the Company revised its estimate of the development period from 50 months to 41 months and based on the Company's assessment of approval timelines adjusted its amortization of the remaining deferred revenue, accordingly. This resulted in the recognition of an additional \$2.6 million and \$5.0 million of revenue in the years ended December 31, 2012 and 2011, respectively. At September 30, 2012, the up-front license fee was fully amortized. The license agreement also includes contingent milestone payments, as well as a contingent equity investment, that could total up to \$55.0 million upon achievement of specific clinical and sales milestones. At December 31, 2012, \$19 million, net of foreign withholding taxes, in development milestone payments has already been received, as well as a \$15.0 million equity investment in the Company's capital stock. Remaining milestone payments, each of which the Company considers substantive, consist of \$4.0 million due upon the first commercial launch in each of the five major European Union countries set forth in the agreement.

The license agreement included a contingent equity investment, in the form of a forward purchase contract, which required Almirall to purchase shares of the Company's convertible preferred stock upon achievement of a specific clinical milestone. Based on the Company's evaluation, this financial instrument was considered an asset or liability, which was required to be carried at fair value. The contingent equity investment was valued at inception at its fair value. At the inception of the arrangement, the Company valued the contingent equity investment and recorded a \$6.0 million asset and incremental deferred revenue. The \$6.0 million of incremental deferred revenue was recognized as revenue on a straight-line basis through September 2012. In November 2009, the Company achieved the clinical milestone triggering the equity investment and reclassified the forward purchase contract as a reduction to convertible preferred stock. On November 13, 2009, the Company received \$15.0 million from Almirall for the purchase of 681,819 shares of convertible preferred stock.

In November 2010, the Company achieved a development milestone under the Almirall license agreement, which resulted in a \$19.0 million payment, representing a \$20.0 million milestone, net of foreign withholding taxes. The Company recognized revenue of approximately \$7.2 million upon achievement of the milestone. This amount represented the portion of the milestone payment equal to the applicable percentage of the performance period that had elapsed as of the date the milestone was achieved. The remainder of the balance was deferred and was recognized on a straight-line basis through September 2012.

The Company recognized approximately \$21.2 million, \$20.6 million and \$18.9 million in total revenue from the Almirall license agreement during the years ended December 31, 2012, 2011 and 2010, respectively, including approximately \$3.5 million, \$0.5 million and \$0.7 million, respectively, from the sale of API to Almirall.

In November 2012, linaclotide was approved by the European Commission for the treatment of IBS-C in adults and will become commercially available in the first half of 2013. The Company will receive escalating royalties from the sales of linaclotide in the European territory.

**Astellas Pharma Inc.**

In November 2009, the Company entered into a license agreement with Astellas. Astellas has the right to develop and commercialize linaclotide for the treatment of IBS-C, CIC and other

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements (Continued)**

gastrointestinal conditions in Japan, South Korea, Taiwan, Thailand, the Philippines and Indonesia. Under the terms of the agreement, Astellas paid the Company an up-front licensing fee of \$30.0 million. The license agreement requires the Company to participate on a joint development committee over linaclotide's development period. The agreement includes additional development milestone payments, each of which the Company considers substantive, that could total up to \$45.0 million. These milestone payments consist of \$15.0 million upon initiation of a Phase 3 study for linaclotide in Japan, \$15.0 million upon filing of the Japanese equivalent of an NDA with the relevant regulatory authority in Japan, and \$15.0 million upon approval of such equivalent by the relevant regulatory authority. In addition, the Company will receive escalating royalties on linaclotide sales should Astellas receive approval to market and sell linaclotide in the Asian market. Astellas will be responsible for activities relating to regulatory approval and commercialization. Because the license to develop and commercialize linaclotide did not have standalone value without the research and development activities provided by the Company, the Company is recognizing the up-front license fee as revenue on a straight-line basis over 115 months, which is the Company's estimate of the period over which linaclotide will be developed under the license agreement for the Asian market. At December 31, 2012, approximately \$21.1 million of the up-front license fee remains deferred. During the years ended December 31, 2012, 2011 and 2010, the Company recognized approximately \$3.9 million, \$3.5 million and \$3.2 million, respectively, in revenue from the Astellas license agreement, including approximately \$0.8 million, \$0.4 million and \$0.6 million, respectively, from the sale of API to Astellas.

**AstraZeneca AB**

In October 2012, the Company entered into a collaboration agreement with AstraZeneca (the "AstraZeneca Collaboration Agreement") to co-develop and co-commercialize linaclotide in China, including Hong Kong and Macau (the "License Territory"). The collaboration provides AstraZeneca with an exclusive nontransferable license to exploit the underlying technology in the License Territory. The parties will share responsibility for continued development and commercialization of linaclotide under a joint development plan and a joint commercialization plan, respectively, with AstraZeneca having primary responsibility for the local operational execution.

The parties agreed to an Initial Development Plan ("IDP") which includes the planned development of linaclotide in China, including the lead responsibility for each activity and the related FTE and external costs. The IDP indicates that AstraZeneca is responsible for a multinational Phase 3 clinical trial, Ironwood is responsible for nonclinical development and supplying clinical trial material and both parties are responsible for the regulatory submission process. The IDP indicates that the party specifically designated as being responsible for a particular development activity under the IDP shall implement and conduct such activities. The activities are governed by a Joint Development Committee ("JDC"), with equal representation from each party. The JDC is responsible for approving, by unanimous consent, the joint development plan and development budget, as well as approving protocols for clinical studies, reviewing and commenting on regulatory submissions, and providing an exchange of data information.

The AstraZeneca Collaboration Agreement will continue until there is no longer a development plan or commercialization plan in place, however, it can be terminated by AstraZeneca at any time upon 180 days' prior written notice. Under certain circumstances, either party may terminate the AstraZeneca Collaboration Agreement in the event of bankruptcy or an uncured material breach of the



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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements (Continued)**

other party. Upon certain change in control scenarios of AstraZeneca, Ironwood may elect to terminate the AstraZeneca Collaboration Agreement and may re-acquire its product rights in a lump sum payment equal to the fair market value of such product rights.

In connection with the AstraZeneca Collaboration Agreement, the Company and AstraZeneca also executed a co-promotion agreement (the "Co-Promotion Agreement"), pursuant to which Ironwood will utilize its existing sales force to co-promote NEXIUM® (esomeprazole magnesium), one of AstraZeneca's products in the U.S. The Co-Promotion Agreement expires upon the earlier of May 27, 2014 or the date on which a generic version of AstraZeneca's product is first sold in the U.S. The Company may terminate the Co-Promotion Agreement on or after December 31, 2013 upon written notice to AstraZeneca.

There are no refund provisions in the AstraZeneca Collaboration Agreement and the Co-Promotion Agreement (together, the "AstraZeneca Agreements").

Under the terms of the AstraZeneca Collaboration Agreement, the Company received a \$25.0 million non-refundable upfront payment upon execution. The Company is also eligible for \$125.0 million in additional commercial milestone payments contingent on the achievement of certain sales targets. The parties will also share in the net profits and losses associated with the development and commercialization of linaclotide in the License Territory, with AstraZeneca receiving 55% of the net profits or incurring 55% of the net losses until a certain specified commercial milestone is achieved, at which time profits and losses will be shared equally thereafter.

Activities under the AstraZeneca Agreements were evaluated in accordance with ASC 605-25 to determine if they represented a multiple element revenue arrangement. The Company identified the following deliverables in the AstraZeneca Agreements:

an exclusive license to develop and commercialize linaclotide in the License Territory (the "License Deliverable"),

research, development and regulatory services pursuant to the IDP (the "R&D Services"),

JDC services,

obligation to supply clinical trial material, and

co-promotion services for AstraZeneca's product (the "Co-Promotion Deliverable").

The License Deliverable is nontransferable and has certain sublicense restrictions. The Company determined that the License Deliverable had standalone value as a result of AstraZeneca's internal product development and commercialization capabilities, which would enable it to use the License Deliverable for its intended purposes without the involvement of the Company. The remaining deliverables were deemed to have stand-alone value based on their nature and all deliverables met the criteria to be accounted for as separate units of accounting under ASC 605-25. Factors considered in this determination included, among other things, whether any other vendors sell the items separately and if the customer could use the delivered item for its intended purpose without the receipt of the remaining deliverables.

The Company identified the supply of linaclotide drug product for commercial requirements and commercialization services as contingent deliverables because these services are contingent upon the receipt of regulatory approval to commercialize linaclotide in the License Territory, and there were no

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements (Continued)**

binding commitments or firm purchase orders pending for commercial supply. As these deliverables are contingent, and are not at an incremental discount, they are not evaluated as deliverables at the inception of the arrangement. These contingent deliverables will be evaluated and accounted for separately as each related contingency is resolved. As of December 31, 2012, no contingent deliverables were provided by the Company under the AstraZeneca Agreements.

The total amount of the non-contingent consideration allocable to the AstraZeneca Agreements of \$26.9 million ("Arrangement Consideration") includes the \$25.0 million non-refundable upfront payment and 55% of the costs for clinical trial material supply services and research, development and regulatory activities allocated to Ironwood in the IDP, or \$1.9 million. The Company allocated the Arrangement Consideration of \$26.9 million to the non-contingent deliverables based on management's BESP of each deliverable using the relative selling price method as the Company did not have VSOE or TPE of selling price for such deliverables. The Company estimated the BESP for the License Deliverable using a multi-period excess-earnings method under the income approach which utilized cash flow projections, the key assumptions of which included the following market conditions and entity-specific factors: (a) the specific rights provided under the license to develop and commercialize linaclotide; (b) the potential indications for linaclotide pursuant to the license; (c) the likelihood linaclotide will be developed for more than one indication; (c) the stage of development of linaclotide for IBS-C and CIC and the projected timeline for regulatory approval; (d) the development risk by indication; (f) the market size by indication; (g) the expected product life of linaclotide assuming commercialization; (h) the competitive environment, and (i) the estimated development and commercialization costs of linaclotide in the License Territory. The Company utilized a discount rate of 11.5% in its analysis, representing the weighted average cost of capital derived from returns on equity for comparable companies. The Company determined its BESP for the remaining deliverables based on the nature of the services to be performed and estimates of the associated effort and cost of the services adjusted for a reasonable profit margin such that they represented estimated market rates for similar services sold on a standalone basis.

The Company concluded that a change in key assumptions used to determine BESP for each deliverable would not have a significant effect on the allocation of the Arrangement Consideration, as the estimated selling price of the License Deliverable significantly exceeds the other deliverables.

Of the \$26.9 million Arrangement Consideration, \$24.7 million was allocated to the License Deliverable, \$0.3 million to the R&D Services, \$28,000 to the JDC services, \$0.1 million to the clinical trial material supply services, and \$1.8 million to the Co-Promotion Deliverable in the relative selling price model. The Company recognized all \$24.7 million allocated to the License Deliverable as revenue upon the execution of the AstraZeneca Agreements as the associated unit of accounting had been delivered and there is no general right of return. At inception, the remaining \$0.3 million of the Arrangement Consideration received, and allocated to the remaining deliverables based on their relative selling prices, was deferred. No additional contingent payments were received through December 31, 2012.

Development costs incurred by Ironwood that pertain to the IDP are recorded as research and development expense as incurred. The Company will perform the R&D Services, JDC services and supply clinical trial materials during the estimated development period of approximately 44 months. All Arrangement Consideration allocated to such services will be recognized as a reduction of research and

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements (Continued)**

development costs, using the proportional performance method, by which the amounts are recognized in proportion to the costs incurred.

Because the Company shares development costs with AstraZeneca, payments from AstraZeneca with respect to both research and development and selling, general and administrative costs incurred by Ironwood prior to the commercialization of linaclotide in the License Territory are recorded as a reduction to expense, in accordance with the Company's policy, which is consistent with the nature of the cost reimbursement. Costs incurred by the parties in 2012 were not material to the consolidated financial statements.

As of December 31, 2012, no clinical trial material has been delivered to AstraZeneca; therefore, no reduction of research and development expense was recorded during the year ended December 31, 2012 related to this deliverable.

The amount allocated to the Co-Promotion Deliverable will be recognized as collaborative arrangements revenue using the proportional performance method, which will approximate recognition on a straight-line basis beginning on the date that Ironwood begins to co-promote AstraZeneca's product, through December 31, 2013 (the earliest cancellation date).

The Company reassesses the periods of performance for each deliverable at the end of each reporting period.

Milestone payments received from AstraZeneca upon the achievement of sales targets will be recognized as earned.

As of December 31, 2012, approximately \$275,000 is included in deferred revenue related to the relative selling price of the R&D Services, JDC Services, clinical trial material supply services and Co-Promotion Deliverable, of which approximately \$251,000 is included in the current portion of deferred revenue.

**Protagonist Therapeutics, Inc.**

The Company entered into a collaboration agreement with Protagonist Therapeutics, Inc. and Protagonist Pty Ltd. (collectively "Protagonist") in January 2011. Under this agreement, Protagonist will use its proprietary technology platform to discover peptides against certain targets and the Company has the rights to develop and commercialize these peptides. In connection with entering into the agreement, the Company made an up-front payment to Protagonist of approximately \$2.8 million, which was expensed as research and development expense. The Company also funds full-time equivalents for Protagonist's drug discovery activities, and will make certain milestone and royalty payments for each product pending the achievement of certain development and commercialization milestones. In the fourth quarter of 2012, the Company selected additional targets and the parties amended the collaboration agreement to increase the total amount of potential milestone payments. As a result of the amendment, the contingent milestones could total up to approximately \$114.5 million per product if all milestones are achieved. The Company will expense these payments as incurred. During the years ended December 31, 2012 and 2011, the Company recorded approximately \$2.7 million and \$5.0 million, respectively, in research and development expense, including the up-front payment, associated with the Protagonist agreement.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**4. Collaboration and License Agreements (Continued)**

**Bionomics Limited**

On January 4, 2012, the Company entered into a collaboration, research and license agreement with Bionomics Limited ("Bionomics") in which it licensed the rights to Bionomics' investigational anti-anxiety compound, BNC210, which Ironwood designates as IW-2143. Under the terms of the agreement, the Company and Bionomics will collaborate on initial research and the Company will be responsible for worldwide development and commercialization of any resulting products, including funding of clinical trials. In connection with entering into the agreement, the Company made an up-front payment to Bionomics of \$3.0 million, which was expensed as research and development expense. The Company also funds full-time equivalents for Bionomics to perform certain drug discovery activities, will make certain milestone payments pending the achievement of certain development and regulatory milestones, and will make royalty payments if IW-2143 is ever successfully commercialized. Pending achievement of certain development and regulatory milestones, Bionomics could receive up to \$345.0 million in up-front and milestone payments and research funding, as well as royalties on sales of products incorporating IW-2143 and other related compounds. The Company will expense these payments as incurred. During the year ended December 31, 2012, the Company recorded approximately \$4.4 million in research and development expense, including the up-front payment, associated with the Bionomics agreement.

**Other**

The Company has other collaborations that are not individually significant to its business. Pursuant to the terms of those agreements, the Company may be required to pay up to \$25.5 million upon the achievement of various development, regulatory and commercial milestones. The Company may also incur significant research and development costs if the related product candidate were to advance to late stage clinical trials. In addition, if any products related to these collaborations are approved for sale, the Company may be required to pay significant royalties on future sales. The payment of these amounts, however, is contingent upon the occurrence of various future events, which have a high degree of uncertainty of occurring. During the year ended December 31, 2012, the Company incurred \$1.1 million in research and development expense, including a \$1.0 million milestone payment, under one of the Company's other collaboration agreements.

**5. Fair Value of Financial Instruments**

The tables below present information about the Company's assets that are measured at fair value on a recurring basis as of December 31, 2012 and 2011 and indicate the fair value hierarchy of the valuation techniques the Company utilized to determine such fair value. In general, fair values determined by Level 1 inputs utilize observable inputs such as quoted prices in active markets for identical assets or liabilities. Fair values determined by Level 2 inputs utilize data points that are either directly or indirectly observable, such as quoted prices, interest rates and yield curves. Fair values determined by Level 3 inputs utilize unobservable data points in which there is little or no market data, which require the Company to develop its own assumptions for the asset or liability.

The Company's investment portfolio includes many fixed income securities that do not always trade on a daily basis. As a result, the pricing services used by the Company apply other available information as applicable through processes such as benchmark yields, benchmarking of like securities, sector groupings and matrix pricing to prepare valuations. In addition, model processes were used to

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****5. Fair Value of Financial Instruments (Continued)**

assess interest rate impact and develop prepayment scenarios. These models take into consideration relevant credit information, perceived market movements, sector news and economic events. The inputs into these models may include benchmark yields, reported trades, broker-dealer quotes, issuer spreads and other relevant data.

The following tables present the assets the Company has measured at fair value on a recurring basis (in thousands):

Description	December 31, 2012	Fair Value Measurements at Reporting Date Using		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Cash and cash equivalents:				
Money market funds	\$ 111,368	\$ 111,368	\$	\$
U.S. government-sponsored securities	2,500		2,500	
Available-for-sale securities:				
U.S. Treasury securities	15,052	15,052		
U.S. government-sponsored securities	16,476		16,476	
<b>Total</b>	<b>\$ 145,396</b>	<b>\$ 126,420</b>	<b>\$ 18,976</b>	<b>\$</b>

Description	December 31, 2011	Fair Value Measurements at Reporting Date Using		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Cash and cash equivalents:				
Money market funds	\$ 77,158	\$ 77,158	\$	\$
Available-for-sale securities:				
U.S. Treasury securities	21,821	21,821		
U.S. government-sponsored securities	54,913		54,913	
<b>Total</b>	<b>\$ 153,892</b>	<b>\$ 98,979</b>	<b>\$ 54,913</b>	<b>\$</b>

Cash equivalents, accounts receivable, including related party accounts receivable, prepaid expenses and other current assets, accounts payable, accrued expenses and the current portion of capital lease obligations at December 31, 2012 and December 31, 2011 are carried at amounts that approximate fair value due to their short-term maturities.

The non-current portion of the capital lease obligations at December 31, 2012 and December 31, 2011 approximates fair value as it bears interest at a rate approximating a market interest rate.

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****6. Available-for-Sale Investments**

The following tables summarize the available-for-sale securities held at December 31, 2012 and December 31, 2011 (in thousands):

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
<b>December 31, 2012:</b>				
U.S. government-sponsored securities	\$ 16,472	\$ 5	\$ (1)	\$ 16,476
U.S. Treasury securities	15,051	1		15,052
Total	\$ 31,523	\$ 6	\$ (1)	\$ 31,528

	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
<b>December 31, 2011:</b>				
U.S. government-sponsored securities	\$ 54,911	\$ 12	\$ (10)	\$ 54,913
U.S. Treasury securities	21,817	4		21,821
Total	\$ 76,728	\$ 16	\$ (10)	\$ 76,734

The contractual maturities of all securities held at December 31, 2012 are one year or less. There were 3 investments classified as available-for-sale securities in an unrealized loss position at December 31, 2012, none of which had been in an unrealized loss position for more than twelve months. The aggregate fair value of these securities was approximately \$3.0 million. There were 12 investments classified as available-for-sale securities in an unrealized loss position at December 31, 2011, none of which had been in an unrealized loss position for more than twelve months. The aggregate fair value of these securities was approximately \$35.5 million. The Company reviews its investments for other-than-temporary impairment whenever the fair value of an investment is less than amortized cost and evidence indicates that an investment's carrying amount is not recoverable within a reasonable period of time. To determine whether an impairment is other-than-temporary, the Company considers whether it has the ability and intent to hold the investment until a market price recovery and considers whether evidence indicating the cost of the investment is recoverable outweighs evidence to the contrary. The Company does not intend to sell the investments and it is not more likely than not that the Company will be required to sell the investments before recovery of their amortized cost bases, which may be maturity. The Company did not hold any securities with other-than-temporary impairment at December 31, 2012.

The proceeds from maturities and sales of available-for-sale securities were \$89.8 million and \$51.0 million for the year ended December 31, 2012, respectively. The proceeds from maturities and sales of available-for-sale securities were \$212.3 million and \$10.0 million for the year ended December 31, 2011, respectively. Gross realized gains and losses on the sales of investments that have been included in other income (expense), net unrealized holding gains or losses for the period that have been included in accumulated other comprehensive income as well as gains and losses reclassified out of accumulated other comprehensive income into other income (expense) have not been material to the Company's consolidated results of operations.

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****7. Inventory**

Inventory consisted of the following at (in thousands):

	December 31,	
	2012	2011
Raw materials	\$ 6,699	\$

In the third quarter of 2012, the Company began capitalizing inventory costs for linaclotide manufactured in preparation for its launch in the U.S. and Europe. Inventory at December 31, 2012 represents API that is available for commercial sale.

**8. Property and Equipment**

Property and equipment consisted of the following (in thousands):

	December 31,	
	2012	2011
Laboratory equipment	\$ 16,315	\$ 13,544
Computer and office equipment	6,476	4,858
Furniture and fixtures	2,449	1,698
Software	11,047	5,254
Construction in process	1,460	1,860
Leasehold improvements	36,770	32,166
	74,517	59,380
Less accumulated depreciation and amortization	(36,980)	(25,755)
	\$ 37,537	\$ 33,625

In both the years ended December 31, 2012 and 2011, the Company entered into capital leases for certain computer and office equipment. As of December 31, 2012 and 2011, the Company had approximately \$1.4 million and \$1.3 million, respectively, of assets under capital leases with accumulated amortization balances of approximately \$0.9 million and \$0.7 million, respectively.

Depreciation and amortization expense of property and equipment associated with continuing operations, including equipment recorded under capital leases, was approximately \$11.3 million, \$10.0 million and \$6.2 million for the years ended December 31, 2012, 2011 and 2010, respectively.

In October 2012, the Company entered into an amendment to its 301 Binney Street building lease, pursuant to which the term of the lease was extended by 24 months (Note 11). As a result of this amendment, the Company extended on a prospective basis the period over which it amortizes its leasehold improvements.

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****9. Accrued Expenses**

Accrued expenses consisted of the following (in thousands):

	December 31,	
	2012	2011
Salaries and benefits	\$ 14,594	\$ 7,525
Professional fees	1,031	820
Other	5,546	2,777
	\$ 21,171	\$ 11,122

**10. Debt**

In September 2010, the Company repaid all outstanding principal and interest under a master loan and security agreement with a financing company to finance the purchase of laboratory and other equipment.

**11. Commitments and Contingencies**

The Company leases its facility, offsite data storage location and various equipment under leases that expire at varying dates through 2018. Certain of these leases contain renewal options, and require the Company to pay operating costs, including property taxes, insurance and maintenance.

In January 2007, the Company entered into a lease agreement for 113,646 rentable square feet of office and lab space at 301 Binney Street, Cambridge, Massachusetts. The initial term of the lease is eight years expiring in January 2016, and the Company has the right to extend the initial term for two additional terms of five years each. The Company's occupancy of the space occurred in four distinct phases, and rent for each phase commenced at the earlier of a contractually set date or the occupancy date. Base rent for the space ranges from \$49.25 to \$60.50 per rentable square foot per year. Base rent escalated in January 2012 by 6.8% based upon a formula tied to the Consumer Price Index. The space was delivered to the Company in September 2007, and rent payments for the initial occupancy commenced in January 2008. The rent expense, inclusive of the escalating rent payments and free rent period is recognized on a straight-line basis over the term of the lease agreement. In accordance with the terms of the lease agreement, the Company maintains a letter of credit securing its obligations under the lease agreement of approximately \$7.6 million.

The Company amended the lease agreement in February 2010, July 2010, February 2011, October 2011 and July 2012 (together "the Amendments") in order to lease additional space. Pursuant to the Amendments, the Company leases an additional 96,613 rentable square feet of the 301 Binney Street building, comprised of (a) an initial phase of 35,444 rentable square feet (the "Initial Phase"), (b) a second phase of 21,589 rentable square feet (the "Second Phase"), (c) a third phase of 17,863 rentable square feet (the "Third Phase") and (d) a fourth phase of 21,717 rentable square feet (the "Fourth Phase"). Rent for the Initial Phase commenced on July 1, 2010, rent for the Second Phase commenced on March 1, 2011, rent for the Third Phase commenced on January 1, 2012, and rent for the Fourth Phase commenced on June 1, 2012. Initial base rent for the Initial Phase is \$42.00 per rentable square foot per year and the initial base rent for the Second Phase, Third Phase and Fourth Phase is \$42.50 per rentable square foot per year. Base rent for the Initial Phase, Second Phase, Third Phase and Fourth Phase will increase annually by \$0.50 per rentable square foot. Consistent with the Company's



Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****11. Commitments and Contingencies (Continued)**

treatment of the lease expense associated with the initial lease agreement, lease expense associated with the Amendments, inclusive of the escalating rent payments, is recognized on a straight-line basis over the term of the lease agreement. The Amendments do not change the expiration date of the lease agreement.

The landlord has reimbursed the Company for its tenant improvements for the space occupied prior to the Amendments at a set rate per rentable square foot. Under the terms of the Amendments, the landlord has or will provide the Company with an allowance for the additional space, which consists of \$55.00 per rentable square foot for tenant improvements in the Initial Phase and the Second Phase and an allowance of \$40.00 per rentable square foot for the Third Phase and the Fourth Phase. As of December 31, 2012, approximately \$17.5 million has been paid to the Company as reimbursement for tenant improvements under the lease agreement, including the Amendments. The reimbursement amount is recorded as deferred rent on the consolidated balance sheets and is being amortized as a reduction to rent expense over the term of the lease agreement or the Amendments, as applicable.

In October 2012, the Company entered into an amendment to its 301 Binney Street building lease, pursuant to which the Company will rent 93,000 square feet of additional space in four stages. Each stage will commence no later than December 1, 2013, June 1, 2014, June 1, 2015 and June 1, 2016, respectively. The amendment also extends the term of the entire lease agreement by 24 months.

In the years ended December 31, 2012 and 2011, the Company entered into capital leases totaling approximately \$0.2 million and \$0.3 million, respectively, for certain computer and office equipment. The capital leases expire at various times through June 2015. At December 31, 2012 and 2011, the weighted average interest rate on the outstanding capital lease obligations was 11.3% and 8.0%, respectively.

At December 31, 2012, future minimum lease payments under all non-cancelable lease arrangements are as follows (in thousands):

	<b>Operating Leases</b>	<b>Capital Leases</b>
2013	\$ 11,517	\$ 312
2014	13,072	253
2015	14,152	85
2016	15,255	
2017	15,778	
Thereafter	604	
<b>Total future minimum lease payments</b>	<b>\$ 70,378</b>	<b>650</b>
Less amounts representing interest		(81)
<b>Capital lease obligations at December 31, 2012</b>		<b>569</b>
Less current portion of capital lease obligations		(261)
<b>Capital lease obligations, net of current portion</b>		<b>\$ 308</b>

Rent expense of approximately \$7.2 million, \$6.6 million and \$8.9 million was charged to continuing operations for the years ended December 31, 2012, 2011 and 2010, respectively. Rent

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**11. Commitments and Contingencies (Continued)**

expense of approximately \$1.3 million related to Microbia for the year ended December 31, 2010, is included in net income from discontinued operations.

The Company, and in some cases, along with its collaboration partner, Forest, has entered into multiple commercial supply agreements for the purchase of linaclotide API and finished drug product. Certain of the agreements contain minimum purchase commitments, the earliest of which commenced in 2012. As of December 31, 2012, the Company's minimum purchase requirements and other firm commitments related to the supply contracts are as follows: approximately \$16.9 million, \$9.6 million, \$9.7 million, \$9.7 million and \$5.9 million for the years ending December 31, 2013, 2014, 2015, 2016 and 2017, respectively.

In January 2012, the Company executed a non-cancelable purchase order for drug-product manufacturing equipment in the amount of approximately \$2.7 million, of which, the Company has paid approximately \$0.8 million to date. The balance will be paid in increments upon the delivery of the equipment and upon the installation of the equipment, both anticipated to occur in the first half of 2013.

In addition to the commitments discussed above, the Company has commitments to make potential future milestone payments to third parties under its license and collaboration arrangements. These milestones primarily include the commencement and results of clinical trials, obtaining regulatory approval in various jurisdictions and the future commercial success of development programs, the outcome and timing of which are difficult to predict and subject to significant uncertainty. In addition to the milestones discussed above, the Company is obligated to pay royalties on future sales, which are contingent on generating levels of sales of future products that have not been achieved and may never be achieved. See Note 4, "Collaboration and License Agreements," for additional information regarding the license and collaboration arrangements.

**Guarantees**

As permitted under Delaware law, the Company indemnifies its officers and directors for certain events or occurrences while the officer or director is, or was, serving at the Company's request in such capacity. The maximum potential amount of future payments the Company could be required to make is unlimited; however, the Company has directors' and officers' insurance coverage that should limit its exposure and enable it to recover a portion of any future amounts paid.

The Company is a party to a number of agreements entered into in the ordinary course of business that contain typical provisions that obligate the Company to indemnify the other parties to such agreements upon the occurrence of certain events. Such indemnification obligations are usually in effect from the date of execution of the applicable agreement for a period equal to the applicable statute of limitations. The aggregate maximum potential future liability of the Company under such indemnification provisions is uncertain.

The Company leases office space under a non-cancelable operating lease. The Company has a standard indemnification arrangement under the lease that requires it to indemnify its landlord against all costs, expenses, fines, suits, claims, demands, liabilities, and actions directly resulting from any breach, violation or nonperformance of any covenant or condition of the Company's lease. The aggregate maximum potential future liability of the Company under such indemnification provisions is uncertain.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**11. Commitments and Contingencies (Continued)**

As of December 31, 2012 and 2011, the Company had not experienced any material losses related to these indemnification obligations and no material claims with respect thereto were outstanding. The Company does not expect significant claims related to these indemnification obligations and, consequently, concluded that the fair value of these obligations is negligible. As a result, the Company has not established any related reserves.

**Litigation**

From time to time, the Company is involved in various legal proceedings and claims, either asserted or unasserted, which arise in the ordinary course of business. While the outcome of these other claims cannot be predicted with certainty, management does not believe that the outcome of any of these ongoing legal matters, individually and in aggregate, will have a material adverse effect on the Company's consolidated financial statements.

**12. Stockholders' Equity (Deficit)**

In February 2010, the Company completed its initial public offering of Class A common stock pursuant to a registration statement that was declared effective on February 2, 2010. The Company sold 19,166,667 shares of its Class A common stock, which included 2,500,000 shares of the Company's Class A common stock sold pursuant to an over-allotment option granted to the underwriters, at a price to the public of \$11.25 per share. As a result of the initial public offering, the Company raised a total of \$215.6 million in gross proceeds, and approximately \$203.2 million in net proceeds after deducting underwriting discounts and commissions of \$10.5 million and offering expenses of approximately \$1.9 million.

Upon the closing of the initial public offering, 69,904,843 shares of the Company's outstanding convertible preferred stock automatically converted into 70,391,620 shares of its Class B common stock.

In February 2012, the Company sold additional 6,037,500 shares of its Class A common stock through a firm commitment, underwritten public offering at a price to the public of \$15.09 per share. As a result of the offering, the Company received aggregate net proceeds, after underwriting discounts and commissions and other offering expenses, of approximately \$85.2 million.

In February 2010, in conjunction with the Company's initial public offering, the Company amended its certificate of incorporation to authorize it to issue 500,000,000 shares of Class A common stock, 100,000,000 shares of Class B common stock and 75,000,000 shares of preferred stock.

**Preferred Stock**

The Company's preferred stock (\$0.001 par value per share) may be issued from time to time in one or more series, with each such series to consist of such number of shares and to have such terms as adopted by the board of directors. Authority is given to the board of directors to determine and fix such voting powers, full or limited, or no voting powers, and such designations, preferences and relative participating, optional or other special rights, and qualifications, limitation or restrictions thereof, including without limitation thereof, dividend rights, conversion rights, redemption privileges and liquidation preferences.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**12. Stockholders' Equity (Deficit) (Continued)**

**Common Stock**

The Company has designated two series of common stock, Series A Common Stock (\$0.001 par value per share), which is referred to as "Class A Common Stock," and Series B Common Stock (\$0.001 par value per share), which is referred to as "Class B Common Stock." All shares of common stock that were outstanding immediately prior to August 2008 were converted into shares of Class B Common Stock. The holders of Class A Common Stock and Class B Common Stock vote together as a single class. Class A Common Stock is entitled to one vote per share. Class B Common Stock is also entitled to one vote per share with the following exceptions: (1) after the completion of an initial public offering of the Company's stock, the holders of the Class B Common Stock are entitled to ten votes per share if the matter is an adoption of an agreement of merger or consolidation, an adoption of a resolution with respect to the sale, lease, or exchange of the Company's assets or an adoption of dissolution or liquidation of the Company, and (2) Class B common stockholders are entitled to ten votes per share on any matter if any individual, entity, or group seeks to obtain or has obtained beneficial ownership of 30% or more of the Company's outstanding shares of common stock. Class B Common Stock converts to Class A Common Stock, on a one-for-one basis, if transferred or sold after the completion of a public offering. Class B Common Stock can be sold at any time and irrevocably converts to Class A Common Stock upon sale or transfer.

The Class B Common Stock will be entitled to a separate class vote for the issuance of additional shares of Class B Common Stock (except pursuant to dividends, splits or convertible securities), or any amendment, alteration or repeal of any provision of the Company's charter. All Class B Common Stock will automatically convert into Class A Common Stock upon the earliest of:

the later of (1) the first date on which the number of shares of Class B Common Stock then outstanding is less than 19,561,556 which represents 25% of the number of shares of Class B Common Stock outstanding immediately following the completion of an initial public offering or (2) December 31, 2018;

December 31, 2038; or

a date agreed to in writing by a majority of the holders of the Class B Common Stock.

The Company has reserved such number of shares of Class A Common Stock as there are outstanding shares of Class B Common Stock solely for the purpose of effecting the conversion of the Class B Common Stock.

The holders of shares of Class A Common Stock and Class B Common Stock are entitled to dividends if and when declared by the board of directors. In the event that dividends are paid in the form of common stock or rights to acquire common stock, the holders of shares of Class A Common Stock shall receive Class A Common Stock or rights to acquire Class A Common Stock and the holders of shares of Class B Common Stock shall receive Class B Common Stock or rights to acquire Class B Common Stock, as applicable.

In the event of a voluntary or involuntary liquidation, dissolution, distribution of assets, or winding up of the Company, the holders of shares of Class A Common Stock and the holders of shares of Class B Common Stock are entitled to share equally, on a per share basis, in all assets of the Company of whatever kind available for distribution to the holders of common stock.

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****12. Stockholders' Equity (Deficit) (Continued)****Restricted Stock**

In 2009, the Company granted an aggregate of 515,549 shares of common stock to independent members of the board of directors under restricted stock agreements in accordance with the terms of the Company's Amended and Restated 2005 Stock Incentive Plan ("2005 Plan") and the Company's director compensation program. 115,549 shares of restricted common stock granted in 2009 vested on December 31, 2009 and the remainder vest ratably over four years beginning in January 2010. In the event that a member of the board ceases to serve on the Company's board prior to December 31, 2013, the member shall forfeit all unvested shares in accordance with the terms of the restricted stock agreement.

A summary of the unvested shares of restricted stock as of December 31, 2012 is presented below:

	Shares	Weighted-Average Grant Date Fair Value
Unvested at December 31, 2011	160,000	\$ 5.72
Granted		
Vested	(80,000)	\$ 5.72
Forfeited		
Unvested at December 31, 2012	80,000	\$ 5.72

**13. Employee Stock Benefit Plans**

The Company has several share-based compensation plans under which stock options, restricted stock, restricted stock units, and other share-based awards are available for grant to employees, directors and consultants of the Company. At December 31, 2012, there were 6,205,854 shares available for future grant under all of the plans.

Under the 1998 Amended and Restated Stock Option Plan ("1998 Plan"), options to purchase 3,405,000 shares of common stock were available for grant to employees, directors, and consultants of the Company. The options were granted under the 1998 Plan at fair market value on the grant date, generally vested over a period of four years, and expire ten years from the grant date. There are no shares available for future grant under this plan, as it expired in accordance with its terms in 2008. At December 31, 2012, there were no outstanding options under the 1998 Plan.

Under the Amended and Restated 2002 Stock Incentive Plan ("2002 Plan"), awards to purchase 4,700,000 shares of common stock were available for grant to employees, officers, directors, consultants, or advisors of the Company. The 2002 Plan provided for the granting of stock options, restricted stock, restricted stock units, and other share-based awards. Options granted under the 2002 Plan at fair market value on the grant date generally vest over a period of four years, and expire ten years from the grant date. The 2002 Plan allowed for the transfer of unused shares from the 1998 Plan. Upon the expiration of the 1998 Plan in July, 2008, 382,438 unused shares were transferred to the 2002 Plan. There are no shares available for future grant under this plan, as it expired in accordance with its terms in 2012. At December 31, 2012, options for 1,891,511 shares of common stock were outstanding under the 2002 Plan.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**13. Employee Stock Benefit Plans (Continued)**

Under the 2005 Plan, stock awards may be granted to employees, officers, directors, consultants, or advisors of the Company. The 2005 Plan provides for the granting of stock options, restricted stock, restricted stock units, and other share-based awards. There were 12,200,000 shares allocated for issuance under the 2005 Plan. At December 31, 2012, there were 30,853 shares available for future grant under the 2005 Plan.

During 2010, the Company's stockholders approved and amended the Amended and Restated 2010 Employee, Director and Consultant Equity Incentive Plan ("2010 Plan") (together with the 2002 Plan and 2005 Plan, the "Plans") which became effective upon the closing of the Company's initial public offering on February 8, 2010. Under the 2010 Plan, stock awards may be granted to employees, officers, directors, or consultants of the Company. There are 6,000,000 shares of common stock initially reserved for issuance under the 2010 Plan. The number of shares available for future grant under the 2010 Plan may be increased on the first day of each fiscal year by an amount equal to the lesser of (i) 6,600,000; (ii) 4% of the number of outstanding shares of common stock on the first day of each fiscal year; and (iii) an amount determined by the board of directors. Accordingly, during 2012 and 2011, 4,028,634 shares and 3,966,893 shares, respectively, were added to the 2010 Plan. Awards that are returned to the Company's 1998 Plan, 2002 Plan and 2005 Plan as a result of their expiration, cancellation, termination or repurchase are automatically made available for issuance under the 2010 Plan. Accordingly, during 2012 and 2011, 83,173 shares and 182,575 shares, respectively, were transferred to the 2010 Plan. At December 31, 2012, there were 6,175,001 shares available for future grant under the 2010 Plan.

During 2010, the Company's stockholders approved the 2010 Employee Stock Purchase Plan ("Purchase Plan") which became effective upon the closing of the Company's initial public offering on February 8, 2010. The Purchase Plan allows eligible employees the right to purchase shares of common stock at the lower of 85% of the fair market value of a share of common stock on the first or last day of an offering period. Each offering period is six months. There were 400,000 shares of common stock initially reserved for issuance pursuant to the Purchase Plan. The number of shares available for future grant under the Purchase Plan may be increased on the first day of each fiscal year by an amount equal to the lesser of (i) 1,000,000 shares, (ii) 1% of the Class A shares of common stock outstanding on the last day of the immediately preceding fiscal year, or (iii) such lesser number of shares as is determined by the board of directors. At December 31, 2012, there were 153,070 shares available for future grant under the Purchase Plan.

Each plan, other than the Purchase Plan, provides for the granting of stock awards whereby the Company's Class B common stock is issuable upon exercise of options granted prior to the closing of the Company's initial public offering and Class A common stock is issuable upon exercise of options granted after the closing of the Company's initial public offering. At December 31, 2012, options exercisable into 9,493,927 shares of Class B common stock and 10,045,502 shares of Class A common stock were outstanding.

The option price may not be less than the fair market value of the common stock at the date of grant. Due to the absence of an active market for the Company's common stock, prior to the Company's initial public offering on February 2, 2010, the board of directors was required to determine the fair value of the common stock for consideration in setting exercise prices for the options granted and in valuing the options granted. In determining the fair value, the board of directors considered both quantitative and qualitative factors including prices at which the Company sold shares of its convertible preferred stock, the rights, preferences and liquidity of the Company's convertible preferred

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**13. Employee Stock Benefit Plans (Continued)**

and common stock, the Company's historical operating and financial performance and the status of its research and product development efforts, achievement of enterprise milestones, including the Company entering into collaboration agreements where third parties agree to purchase shares of the Company's convertible preferred stock at fixed prices sometime in the future, external market conditions affecting the biotechnology industry sector, and financial market conditions and, commencing in 2006, contemporaneous valuations provided by management.

The option exercise period may not extend beyond ten years from the date of grant. The 1998 Plan, the 2002 Plan and the 2005 Plan provide that, subject to approval by the board of directors, option grantees may have the right to exercise an option prior to vesting. Shares purchased upon the exercise of unvested options will be subject to the same vesting schedule as the underlying options, and are subject to repurchase at the original exercise price by the Company should the employee be terminated or leave the Company prior to becoming fully vested in such shares. At December 31, 2012 and 2011, there were 230 and 413 shares, respectively, that had been issued pursuant to the exercise of unvested options that remain unvested and subject to repurchase by the Company. At December 31, 2012, the Company does not hold any treasury shares. Upon stock option exercise, the Company issues new shares and delivers them to the participant. The exercise of these shares is not substantive and as a result, the cash paid for the exercise prices is considered a deposit or prepayment of the exercise price and is recorded as a liability and was not material to the consolidated financial statements at December 31, 2012 and 2011.

The Company, from time to time, issues certain time-accelerated stock options to certain employees under the Plans. The vesting of these time-accelerated stock options accelerates upon the achievement of certain performance-based milestones. If these criteria are not met, such options will vest between six and ten years after the date of grant, and expire at the end of ten years. During the years ended December 31, 2012 and 2011, 680,001 shares and 765,665 shares vested as a result of milestone or service period achievements, respectively. At December 31, 2012 and 2011, there were 823,334 and 1,503,335 shares, respectively, issuable under outstanding and unvested time-accelerated options. When achievement of the milestone is not deemed probable, the Company recognizes compensation expense associated with time-accelerated stock options initially over the vesting period of the respective stock option. When deemed probable of achievement, the Company expenses the remaining unrecognized compensation for the respective stock option over the implicit service period. The Company recorded share-based compensation related to these time-accelerated options of approximately \$0.5 million, \$0.8 million and \$0.5 million during the years ended December 31, 2012, 2011 and 2010, respectively. At December 31, 2012, the Company has approximately \$0.3 million in unrecognized share-based compensation, net of estimated forfeitures, related to these options.

The Company also grants to certain employees performance-based options to purchase shares of common stock. These options are subject to performance-based milestone vesting and expire ten years from the date of grant. During the years ended December 31, 2012, 2011 and 2010, 197,500 shares, 65,000 shares and 5,000 shares vested as a result of performance milestone achievements and the Company recorded share-based compensation related to these options of approximately \$1.0 million, \$0.5 million and \$(12,000), respectively. At December 31, 2012, the unrecognized share-based compensation related to these performance-based options was approximately \$4.1 million.

In calculating share-based compensation costs, the Company estimated the fair value of stock options using the Black-Scholes option-pricing model. The Black-Scholes option-pricing model was

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****13. Employee Stock Benefit Plans (Continued)**

developed for use in estimating the fair value of short-lived, exchange-traded options that have no vesting restrictions and are fully transferable. The Company estimates the number of awards that will be forfeited in calculating compensation costs. Such costs are then recognized over the requisite service period of the awards on a straight-line basis.

Determining the fair value of share-based awards using the Black-Scholes option-pricing model requires the use of highly subjective assumptions, including the expected term of the award and expected stock price volatility. The weighted average assumptions used to estimate the fair value of the stock options using the Black-Scholes option pricing model were as follows for the years ended December 31, 2012, 2011 and 2010:

	Years Ended December 31,		
	2012	2011	2010
Fair value of common stock	\$ 13.44	\$ 11.98	\$ 11.23
Expected volatility	49.2%	49.8%	57.4%
Expected term (in years)	6.5	6.5	6.5
Risk-free interest rate	1.2%	2.4%	2.9%
Expected dividend yield	%	%	%

*Expected Volatility*

Volatility measures the amount that a stock price has fluctuated or is expected to fluctuate during a period. The Company uses a blended volatility rate that blends its own historical volatility with that of comparable public companies. Prior to February 3, 2010, the Company was not publicly traded and therefore had no trading history. Therefore, stock price volatility was estimated based on an analysis of historical and implied volatility of comparable public companies. For purposes of identifying comparable publicly-traded companies, the Company selected publicly-traded companies that are in the biopharmaceutical industry, have products or product candidates in similar therapeutic areas (gastrointestinal dysfunction and pain management) and stages of nonclinical and clinical development, have sufficient trading history to derive a historic volatility rate and have similar vesting terms as the Company's options.

*Expected Term*

The Company has limited historical information to develop reasonable expectations about future exercise patterns and post-vesting employment termination behavior for its stock option grants. As a result, for stock option grants made during the years ended December 31, 2012, 2011 and 2010, the expected term was estimated using the "simplified method" per SAB Topic 14.D.2. The simplified method is based on the average of the vesting tranches and the contractual life of each grant.

*Risk-Free Interest Rate*

The risk-free interest rate used for each grant is based on a zero-coupon U.S. Treasury instrument with a remaining term similar to the expected term of the share-based award.



Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****13. Employee Stock Benefit Plans (Continued)***Expected Dividend Yield*

The Company has not paid and does not anticipate paying cash dividends on its shares of common stock in the foreseeable future; therefore, the expected dividend yield is assumed to be zero.

*Forfeitures*

Forfeitures are estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from the Company's estimates. Subsequent changes in estimated forfeitures are recognized through a cumulative adjustment in the period of change, and will also impact the amount of share-based compensation expense in future periods. The Company uses historical data to estimate forfeiture rates. The Company's forfeiture rates were 6.0%, 5.5% and 5.5% as of December 31, 2012, 2011 and 2010, respectively.

The following table summarizes the expense recognized for these share-based compensation arrangements in the consolidated statements of operations (in thousands):

	Years Ended December 31,		
	2012	2011	2010
Employee stock options	\$ 16,582	\$ 10,904	\$ 6,545
Restricted stock awards	429	431	469
Non-employee stock options	60	152	123
Employee stock purchase plan	472	215	100
Stock award	30	30	259
	17,573	11,732	7,496
Microbia Stock Plan (included in discontinued operations)			59
	\$ 17,573	\$ 11,732	\$ 7,555

Share-based compensation is reflected in the consolidated statements of operations as follows for the years ended December 31, 2012, 2011 and 2010 (in thousands):

	Years Ended December 31,		
	2012	2011	2010
Research and development	\$ 9,080	\$ 6,071	\$ 4,112
Selling, general and administrative	8,493	5,661	3,384
Net income from discontinued operations			59

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Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****13. Employee Stock Benefit Plans (Continued)**

The following table summarizes stock option activity under the Company's share-based compensation plans, including performance-based options:

	Shares of Common Stock Attributable to Options	Weighted- Average Exercise Price	Weighted- Average Contractual Life  (in years)	Aggregate Intrinsic Value  (in thousands)
Outstanding at December 31, 2011	16,424,500	\$ 6.09	6.40	\$ 98,999
Granted	4,329,250	\$ 13.44		
Exercised	(866,637)	\$ 3.04		
Cancelled	(347,684)	\$ 12.27		
Outstanding at December 31, 2012	19,539,429	\$ 7.75	6.33	\$ 79,140
Vested or expected to vest at December 31, 2012	18,519,739	\$ 7.65	6.25	\$ 76,449
Exercisable at December 31, 2012 <sup>(1)</sup>	10,220,168	\$ 4.94	4.81	\$ 65,371

(1)

All stock options granted under the 1998 Amended and Restated Stock Option Plan, the Amended and Restated 2002 Stock Incentive Plan and the 2005 Plan contain provisions allowing for the early exercise of such options into restricted stock. The exercisable shares disclosed above represent those that are vested as of December 31, 2012.

The weighted-average grant date fair value per share of options granted to employees during the years ended December 31, 2012, 2011 and 2010 was \$6.62, \$6.21 and \$6.48, respectively. The aggregate grant-date fair value of the options granted to employees during the years ended December 31, 2012, 2011 and 2010 was approximately \$28.6 million, \$20.5 million and \$17.7 million, respectively. The total intrinsic value of options exercised during the years ended December 31, 2012, 2011 and 2010 was approximately \$8.6 million, \$17.4 million and \$18.6 million, respectively. The intrinsic value was calculated as the difference between the fair value of the Company's common stock and the exercise price of the option issued.

As of December 31, 2012, there was approximately \$0.4 million and \$35.1 million of unrecognized share-based compensation, net of estimated forfeitures, related to restricted stock awards and unvested stock option grants with time-based vesting, respectively which are expected to be recognized over a weighted average period of 1 year and 3.1 years, respectively. The total unrecognized share-based compensation cost will be adjusted for future changes in estimated forfeitures.

*Microbia Stock Plan*

As a result of the sale of the Company's interest in Microbia to DSM in September 2010, the Microbia Stock Plan was cancelled, resulting in the cancellation of all existing shares.

**14. Income Taxes**

In general, the Company has not recorded a provision for federal or state income taxes as it has had cumulative net operating losses since inception. However, the Company recorded an approximately \$3,000 provision for state taxes for the year ended December 31, 2011. In addition, because of



Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****14. Income Taxes (Continued)**

intra-period income tax allocation requirements, the Company recorded a benefit for income taxes from continuing operations of \$2.9 million for the year ended December 31, 2010, offset by an identical and corresponding income tax provision from discontinued operations. The intra-period income tax allocation considers income (loss) from discontinued operations for purposes of determining the amount of tax benefit resulting from the loss from continuing operations.

A reconciliation of income taxes from continuing operations computed using the U.S. federal statutory rate to that reflected in operations follows (in thousands):

	Years Ended December 31,		
	2012	2011	2010
Income tax benefit using U.S. federal statutory rate	\$ (24,692)	\$ (22,050)	\$ (20,181)
Permanent differences	288	245	(3,126)
State income taxes, net of federal benefit	(3,835)	(3,531)	(3,427)
Stock compensation	3,531	2,104	(243)
Tax credits	(10,420)	509	(2,041)
Expiring net operating losses and tax credits	564	803	912
Effect of change in state tax rate on deferred tax assets and deferred tax liabilities		98	613
Change in the valuation allowance	34,577	20,955	27,608
Other	(13)	870	(115)
Total before intra-period allocation		3	
Intra-period tax allocation			(2,944)
	\$	\$	\$
		3	(2,944)

Components of the Company's deferred tax assets and liabilities are as follows (in thousands):

	December 31,	
	2012	2011
Deferred tax assets:		
Net operating loss carryforwards	\$ 127,928	\$ 91,031
Tax credit carryforwards	24,444	14,024
Capitalized research and development	17,305	22,589
Deferred revenue	8,300	22,555
Other	25,036	17,980
Total deferred tax assets	203,013	168,179
Valuation allowance	(203,013)	(168,179)
Net deferred tax asset	\$	\$

Management of the Company has evaluated the positive and negative evidence bearing upon the realizability of its deferred tax assets. Management has considered the Company's history of operating losses and concluded, in accordance with the applicable accounting standards, that it is more likely than not that the Company may not realize the benefit of its deferred tax assets. Accordingly, the deferred

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**14. Income Taxes (Continued)**

tax assets have been fully reserved at December 31, 2012 and 2011. Management reevaluates the positive and negative evidence on a quarterly basis.

The valuation allowance increased approximately \$34.8 million during the year ended December 31, 2012, due primarily to the increase in the net operating loss carryforwards and tax credits. The valuation allowance increased approximately \$20.3 million during the year ended December 31, 2011, due primarily to the increase in the net operating loss carryforwards, share-based compensation expense and accrued expenses.

Subject to the limitations described below at December 31, 2012 and 2011, the Company has net operating loss carryforwards of approximately \$334.1 million and \$239.2 million, respectively, to offset future federal taxable income, which expire beginning in 2018 continuing through 2032. The federal net operating loss carryforwards exclude approximately \$24.4 million of deductions related to the exercise of stock options. This amount represents an excess tax benefit and has not been included in the gross deferred tax asset reflected for net operating losses. This amount will be recorded as an increase in additional paid in capital on the consolidated balance sheet once the excess benefits are "realized" in accordance with ASC 718. As of December 31, 2012 and 2011, the Company has state net operating loss carryforwards of approximately \$271.4 million and \$183.8 million, respectively, to offset future state taxable income, which have begun to expire and will continue to expire through 2032. The Company also has tax credit carryforwards of approximately \$26.4 million and \$15.0 million as of December 31, 2012 and 2011, respectively, to offset future federal and state income taxes, which expire at various times through 2032.

Utilization of net operating loss carryforwards and research and development credit carryforwards may be subject to a substantial annual limitation due to ownership change limitations that have occurred previously or that could occur in the future in accordance with Section 382 of the Internal Revenue Code of 1986 ("IRC Section 382") and with Section 383 of the Internal Revenue Code of 1986, as well as similar state provisions. These ownership changes may limit the amount of net operating loss carryforwards and research and development credit carryforwards that can be utilized annually to offset future taxable income and taxes, respectively. In general, an ownership change, as defined by IRC Section 382, results from transactions increasing the ownership of certain stockholders or public groups in the stock of a corporation by more than 50 percentage points over a three-year period. The Company has completed several financings since its inception which may have resulted in a change in control as defined by IRC Section 382, or could result in a change in control in the future.

The Company applies ASC 740, *Income Taxes*. ASC 740 provides guidance on the accounting for uncertainty in income taxes recognized in financial statements and requires the impact of a tax position to be recognized in the financial statements if that position is more likely than not of being sustained by the taxing authority. As a result of the implementation of the new guidance, the Company recognized no material adjustment for unrecognized income tax benefits. At December 31, 2012 and December 31, 2011, the Company had no unrecognized tax benefits.

The Company will recognize interest and penalties related to uncertain tax positions in income tax expense. As of December 31, 2012, 2011 and 2010, the Company had no accrued interest or penalties related to uncertain tax positions and no amounts have been recognized in the Company's consolidated statements of operations.

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**14. Income Taxes (Continued)**

The statute of limitations for assessment by the Internal Revenue Service ("IRS") and state tax authorities is open for tax years ended December 31, 2011, 2010 and 2009, although carryforward attributes that were generated prior to tax year 2009 may still be adjusted upon examination by the IRS or state tax authorities if they either have been, or will be, used in a future period. There are currently no federal or state audits in progress.

During 2012, the Company completed a study of its research and development credit carryforwards. This study resulted in an increase in its research and development credit carryforwards of \$9.9 million.

**15. Defined Contribution Plan**

The Ironwood Pharmaceuticals, Inc. 401(k) Savings Plan is a defined contribution plan in the form of a qualified 401(k) plan in which substantially all employees are eligible to participate upon employment. Subject to certain Internal Revenue Code limits, eligible employees may elect to contribute from 1% to 100% of their compensation. Company contributions to the plan are at the sole discretion of the Company's board of directors. The Company provides a matching contribution of 75% of the employee's contributions, up to \$6,000 annually. During the years ended December 31, 2012, 2011 and 2010, the Company recorded approximately \$1.9 million, \$0.6 million and \$0.5 million of expense in net income (loss) from continuing operations related to its 401(k) company match. Included in net income from discontinued operations for the year ended December 31, 2010 is approximately \$0.1 million related to the 401(k) company match.

**16. Related Party Transactions**

The Company has and currently obtains legal services from a law firm that is an investor of the Company. The Company paid approximately \$0.2 million, \$0.2 million and \$0.3 million in legal fees to this investor during the years ended December 31, 2012, 2011 and 2010, respectively. At December 31, 2012 and December 31, 2011, the Company had approximately \$23,000 and \$26,000 in accounts payable related to this related party.

In September 2009, Forest became a related party when the Company sold to Forest 2,083,333 shares of the Company's convertible preferred stock and in November 2009, Almirall became a related party when the Company sold to Almirall 681,819 shares of the Company's convertible preferred stock (Note 4). These shares of preferred stock converted to the Company's Class B common stock on a 1:1 basis upon the completion of the Company's initial public offering in February 2010. Amounts due to and due from Forest and Almirall are reflected as related party accounts payable and related party accounts receivable, respectively. These balances are reported net of any balances due to or from the related party. At December 31, 2012, the Company had approximately \$1.0 million in related party accounts receivable associated with Almirall and \$7.5 million in related party accounts payable, net of related party accounts receivable, associated with Forest. At December 31, 2011, the Company had approximately \$15,000 in related party accounts receivable associated with Almirall and approximately \$0.6 million in related party accounts receivable, net of related party accounts payable, associated with Forest.

Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****17. Segment Reporting**

Prior to the sale of its interest in Microbia in September 2010, the Company had two reportable business segments: human therapeutics and biomanufacturing. The Company had no inter-segment revenues.

The following table reports revenue and loss from operations for the Company's reportable segments for the years ended December 31, 2012, 2011 and 2010 (in thousands):

	Years Ended December 31,		
	2012	2011	2010
<b>Revenue:</b>			
Human therapeutics	\$ 150,245	\$ 65,871	\$ 43,857
Biomanufacturing (included in discontinued operations)			1,985
<b>Total</b>	<b>\$ 150,245</b>	<b>\$ 65,871</b>	<b>\$ 45,842</b>
<b>Loss from operations:</b>			
Human therapeutics	\$ (72,762)	\$ (66,142)	\$ (60,766)
Biomanufacturing (included in discontinued operations)			(4,532)
<b>Total</b>	<b>\$ (72,762)</b>	<b>\$ (66,142)</b>	<b>\$ (65,298)</b>

	December 31,	
	2012	2011
<b>Total assets:</b>		
Human therapeutics	\$ 229,907	\$ 208,977

At December 31, 2012 and 2011, all of the Company's accounts receivable related to the human therapeutics segment.

**18. Federal and State Grants****Federal Grant**

In 2010, the Company was awarded approximately \$1.0 million in grants under the Qualifying Therapeutic Discovery Project Program which was created in March 2010 as part of the Patient Protection and Affordability Care Act. The total amount awarded was recognized in the fourth quarter of 2010 and is recorded as other income on the Company's consolidated statements of operations.

**State Grant**

In the year ended December 31, 2012 and 2011, the Company was awarded an approximately \$1.7 million and \$0.9 million tax incentive, respectively, associated with the Life Sciences Tax Incentive Program from the Massachusetts Life Sciences Center. The program was established in 2008 in order to incentivize life sciences companies to create new sustained jobs in Massachusetts. Jobs must be maintained for at least five years, during which time the grant proceeds can be recovered by the Massachusetts Department of Revenue ("DOR") if the Company does not meet and maintain its job

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**Ironwood Pharmaceuticals, Inc.**

**Notes to Consolidated Financial Statements (Continued)**

**18. Federal and State Grants (Continued)**

creation commitments. The award received in July 2011 was recognized as other income in the consolidated statement of operations in the third quarter of 2011, as the Company believed it had satisfied its job creation commitments. The Company's hiring plan for 2011-2015 is significantly in excess of the hiring requirement for the 5 year period, as such, the Company believes that the likelihood of recovery of the 2011 award by the DOR is remote. The funds received in 2012 were recorded as other liabilities as the Company has not met its 2012 job creation commitments.

**19. Microbia, Inc.**

On September 21, 2010, the Company sold its interest in Microbia to DSM in exchange for cash proceeds of \$9.5 million, the payment of approximately \$1.1 million of Microbia debt and interest by DSM and future contingent consideration based on the sale of products incorporating Microbia's technology (See Note 2).

**Tate & Lyle Investments, Ltd.**

In September 2006, the Company entered into a collaboration agreement with T&L. The collaboration agreement had a five-year term with a one-year notice of termination. In connection with the execution of the collaboration agreement, the Company also issued T&L 1,823,529 shares of common stock of Microbia, the Company's wholly owned subsidiary, at the aggregate purchase price of approximately \$2,000, and issued 7,000,000 shares of convertible preferred stock of Microbia at the aggregate purchase price of \$7.0 million. After the sale of stock to T&L, the Company retained an 85% majority ownership interest, and T&L had a 15% noncontrolling interest in Microbia. The Company's ownership interest in Microbia was entirely comprised of convertible preferred stock with the same preferences to that held by T&L. The ownership of the convertible preferred and common stock by T&L was recorded as noncontrolling interest in the consolidated financial statements.

On June 15, 2010, T&L and Microbia entered into an agreement to terminate their collaboration. The terms and conditions of the agreement included an exchange of intellectual property and a one-time payment to Microbia of approximately \$1.8 million. All current and future obligations between Microbia and T&L were terminated as a result of this agreement.

Revenue earned from the T&L collaboration agreement totaled approximately \$1.9 million during the year ended December 31, 2010. This revenue is included in net income from discontinued operations.

**Strategic Restructuring Plan**

In November 2009, Microbia implemented a strategic restructuring plan that included an immediate reduction of its workforce by approximately 40% of its existing workforce, and a reduced workweek for an additional 12% of its existing workforce. Microbia took this action to focus on its proprietary strain- development platform and existing service agreements.

In connection with the strategic restructuring plan, Microbia recorded restructuring charges of approximately \$1.2 million in the year ended December 31, 2009. Provisions associated with the strategic restructuring are included in net income (loss) from discontinued operations in the consolidated statements of operations. Payments associated with the restructuring charges were fully paid as of December 31, 2010.



Table of Contents**Ironwood Pharmaceuticals, Inc.****Notes to Consolidated Financial Statements (Continued)****20. Selected Quarterly Financial Data (Unaudited)**

The following table contains quarterly financial information for 2012 and 2011. The Company believes that the following information reflects all normal recurring adjustments necessary for a fair presentation of the information for the periods presented. The operating results for any quarter are not necessarily indicative of results for any future period.

	<b>First Quarter</b>	<b>Second Quarter</b>	<b>Third Quarter</b>	<b>Fourth Quarter</b>	<b>Total Year</b>
(in thousands, except per share data)					
<b>2012</b>					
Collaborative arrangements revenue	\$ 12,248	\$ 14,604	\$ 96,413	\$ 26,980	\$ 150,245
Total cost and expenses	47,884	55,438	48,805	70,880	223,007
Other income (expense), net	35	31	27	45	138
Net income (loss)	(35,601)	(40,803)	47,635	(43,855)	(72,624)
Basic net income (loss) per share	\$ (0.34)	\$ (0.38)	\$ 0.44	\$ (0.41)	\$ (0.68)
Diluted net income (loss) per share	\$ (0.34)	\$ (0.38)	\$ 0.42	\$ (0.41)	\$ (0.68)

	<b>First Quarter</b>	<b>Second Quarter</b>	<b>Third Quarter</b>	<b>Fourth Quarter</b>	<b>Total Year</b>
(in thousands, except per share data)					
<b>2011</b>					
Collaborative arrangements revenue	\$ 10,237	\$ 11,262	\$ 12,218	\$ 32,154	\$ 65,871
Total cost and expenses	28,779	30,214	33,834	39,186	132,013
Other income (expense), net	141	108	986	58	1,293
Net loss	(18,401)	(18,844)	(20,633)	(6,974)	(64,852)
Net loss per share basic and diluted	\$ (0.19)	\$ (0.19)	\$ (0.21)	\$ (0.07)	\$ (0.65)

**21. Subsequent Events**

On January 4, 2013, the Company closed a private placement of \$175.0 million in aggregate principal amount of notes due on or before June 15, 2024. The notes bear an annual interest rate of 11%, with interest paid quarterly beginning June 15, 2013. Ironwood will make quarterly payments on the notes equal to the greater of (i) 7.5% of net sales of LINZESS in the U.S. for the preceding quarter (the "synthetic royalty amount") and (ii) accrued and unpaid interest on the notes (the "required interest amount"). Principal on the notes will be repaid in an amount equal to the synthetic royalty amount minus the required quarterly interest amount, when this is a positive number, until the principal has been paid in full. The notes may be redeemed at any time prior to maturity, in whole or in part, at the option of the Company at specified redemption premiums.

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### Exhibit Index

Number	Description	Incorporated by reference herein Form	Date
3.1	Eleventh Amended and Restated Certificate of Incorporation	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
3.2	Fifth Amended and Restated Bylaws	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
4.1	Specimen Class A common stock certificate	Registration Statement on Form S-1, as amended (File No. 333-163275)	January 20, 2010
4.2	Eighth Amended and Restated Investors' Rights Agreement, dated as of September 1, 2009, by and among Ironwood Pharmaceuticals, Inc., the Founders and the Investors named therein	Registration Statement on Form S-1, as amended (File No. 333-163275)	November 20, 2009
4.3	Indenture, dated as of January 4, 2013, by and between Ironwood Pharmaceuticals, Inc., as issuer of the Notes, and U.S. Bank National Association, as initial trustee of the Notes and as Operating Bank	Form 8-K (File No. 001-34620)	January 8, 2013
10.1 <sup>#</sup>	Amended and Restated 2002 Stock Incentive Plan and form agreements thereunder	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.2 <sup>#</sup>	Amended and Restated 2005 Stock Incentive Plan and form agreements thereunder	Registration Statement on Form S-1, as amended (File No. 333-163275)	January 29, 2010
10.3 <sup>#</sup>	Amended and Restated 2010 Employee, Director and Consultant Equity Incentive Plan	Registration Statement on Form S-8, as amended (File No. 333-184396)	October 12, 2012
10.3.1 <sup>#</sup>	Form agreement under the 2010 Employee, Director and Consultant Equity Incentive Plan	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
10.4 <sup>#*</sup>	Amended and Restated 2010 Employee Stock Purchase Plan		
10.5 <sup>#*</sup>	Change of Control Severance Benefit Plan		
10.6 <sup>#</sup>	Director Compensation Plan	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.7 <sup>#</sup>	Form of Indemnification Agreement with directors and officers	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009

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Number	Description	Incorporated by reference herein Form	Date
10.8#	Consulting Agreement, dated as of November 30, 2009, by and between Christopher Walsh and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009
10.9 <sup>+</sup>	Collaboration Agreement, dated as of September 12, 2007, as amended on November 3, 2009, by and between Forest Laboratories, Inc. and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	February 2, 2010
10.9.1 <sup>*</sup>	Amendment No. 2 to the Collaboration Agreement, dated as of January 8, 2013, by and between Forest Laboratories, Inc. and Ironwood Pharmaceuticals, Inc.		
10.10 <sup>+</sup>	License Agreement, dated as of April 30, 2009, by and between Almirall, S.A. and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	February 2, 2010
10.11 <sup>+</sup>	License Agreement, dated as of November 10, 2009, by and among Astellas Pharma, Inc. and Ironwood Pharmaceuticals, Inc.	Registration Statement on Form S-1, as amended (File No. 333-163275)	February 2, 2010
10.12 <sup>++</sup>	Collaboration Agreement, dated as of October 23, 2012, by and between AstraZeneca AB and Ironwood Pharmaceuticals, Inc.		
10.13 <sup>+</sup>	Commercial Supply Agreement, dated as of June 23, 2010, by and among PolyPeptide Laboratories, Inc. and Polypeptide Laboratories (SWEDEN) AB, Forest Laboratories, Inc. and Ironwood Pharmaceuticals, Inc.	Quarterly Report on Form 10-Q (File No. 001-34620)	August 10, 2010
10.14 <sup>+</sup>	Commercial Supply Agreement, dated as of March 28, 2011, by and among Corden Pharma Colorado (f/k/a Roche Colorado Corporation), Ironwood Pharmaceuticals, Inc. and Forest Laboratories, Inc.	Quarterly Report on Form 10-Q (File No. 001-34620)	May 13, 2011
10.15	Lease for facilities at 301 Binney St., Cambridge, MA, dated as of January 12, 2007, as amended on April 9, 2009, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Registration Statement on Form S-1, as amended (File No. 333-163275)	December 23, 2009

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Number	Description	Incorporated by reference herein Form	Date
10.15.1	Second Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of February 9, 2010, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2010
10.15.2	Third Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of July 1, 2010, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2011
10.15.3	Fourth Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of February 3, 2011, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	March 30, 2011
10.15.4	Fifth Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of October 18, 2011, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC	Annual Report on Form 10-K (File No. 001-34620)	February 29, 2012
10.15.5*	Sixth Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of July 19, 2012, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC		
10.15.6*	Seventh Amendment to Lease for facilities at 301 Binney St., Cambridge, MA, dated as of October 30, 2012, by and between Ironwood Pharmaceuticals, Inc. and BMR-Rogers Street LLC		
21.1*	Subsidiaries of Ironwood Pharmaceuticals, Inc.		
23.1*	Consent of Independent Registered Public Accounting Firm		
31.1*	Certification of Chief Executive Officer pursuant to Rules 13a-14 or 15d-14 of the Exchange Act		

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Number	Description	Incorporated by reference herein Form	Date
31.2*	Certification of Chief Financial Officer pursuant to Rules 13a-14 or 15d-14 of the Exchange Act		
32.1	Certification of Chief Executive Officer pursuant to Rules 13a-14(b) or 15d-14(b) of the Exchange Act and 18 U.S.C. Section 1350		
32.2	Certification of Chief Financial Officer pursuant to Rules 13a-14(b) or 15d-14(b) of the Exchange Act and 18 U.S.C. Section 1350		
101.INS	XBRL Instance Document		
101.SCH	XBRL Taxonomy Extension Schema Document		
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document		
101.LAB	XBRL Taxonomy Extension Label Linkbase Database		
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document		
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document		

\*  
Filed herewith.

Furnished herewith.

+  
Confidential treatment granted under 17 C.F.R. §§200.80(b)(4) and 230.406. The confidential portions of this exhibit have been omitted and are marked accordingly. The confidential portions have been provided separately to the SEC pursuant to the confidential treatment request.

++  
Confidential treatment requested under 17 C.F.R. §§200.80(b)(4) and Rule 24b-2. The confidential portions of this exhibit have been omitted and are marked accordingly. The confidential portions have been provided separately to the SEC pursuant to the confidential treatment request.

#  
Management contract or compensatory plan, contract, or agreement.

(b)  
Exhibits.

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The exhibits required by this Item are listed under Item 15(a)(3).

(c)

Financial Statement Schedules.

The financial statement schedules required by this Item are listed under Item 15(a)(2).

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