As filed with the Securities and Exchange Commission on November 30, 2000 Registration No. 333-47252 SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 AMENDMENT NO. 3 T0 FORM S-3 REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933 NEUROCRINE BIOSCIENCES, INC. (Exact name of registrant as specified in its charter) Delaware 10555 Science Center Drive 33-0525145 (State of incorporation) San Diego, California 92121 (I.R.S. Employer Identification No.) (858) 658-7600 (Address, including zip code, and telephone number, including area code, of registrant's principal executive offices) Gary A. Lyons President, Chief Executive Officer and Director Neurocrine Biosciences, Inc. 10555 Science Center Drive San Diego, California 92121 (858) 658-7600 (Name, address, including zip code, and telephone number, including area code, of agent for service) -----Copies to: John M. Newell, Esq. Peter T. Healy, Esq. Andrew S. Williamson, Esq. Steven L. Pickering, Esq. Robert W. Phillips, Esq. Natasha L. Ell, Esq. Latham & Watkins O'Melveny & Myers LLP 505 Montgomery Street, Suite 1900 275 Battery Street, Suite 2600 San Francisco, California 94111-3305 San Francisco, California 94111-2562 (415) 391-0600 (415) 984-8700 Approximate date of commencement of proposed sale to the public: As soon as practicable after the effective date of this Registration Statement. If the only securities being registered on this Form are to be offered following box. [_] If any of the securities being registered on this Form are to be offered on

pursuant to dividend or interest reinvestment plans, please check the

a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended (the "Securities Act"), other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. [_]

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. $[_]$

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. [_]

If delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box. [_]

dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act or until the Registration Statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

acting pursuant to said Section 8(a), may determine.

EXPLANATORY NOTE

This registration statement contains two forms of prospectus front cover page: (a) one to be used in connection with an offering in the United States and Canada and (b) one to be used in connection with a concurrent offering outside of the United States and Canada. The U.S./Canadian prospectus and the international prospectus are otherwise identical in all respects. The international version of the front cover page is included immediately before Part II of this registration statement.

SUBJECT TO COMPLETION, DATED NOVEMBER 30, 2000
[LOGO OF NEUROCRINE BIOSCIENCES]
3,000,000 Shares
Common Stock

Neurocrine Biosciences, Inc. is offering 3,000,000 shares of its common stock. Neurocrine Biosciences, Inc.'s common stock is traded on the Nasdaq National Market under the symbol "NBIX." The last reported sale price of the common stock on the Nasdaq National Market on November 21, 2000 was \$33.13 per share.

Investing in our common stock involves risks.
See "Risk Factors" beginning on page 5.

	Per Share	Total
Public Offering Price	\$	\$

The Securities and Exchange Commission and state securities regulators have not approved or disapproved these securities, or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

Neurocrine Biosciences, Inc. has granted the underwriters a 30-day option to purchase up to an additional 450,000 shares of common stock to cover overallotments.

Robertson Stephens

Salomon Smith Barney

The date of this prospectus is , 2000.

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PROSPECTUS SUMMARY

You should read the following summary together with the more detailed information in this prospectus, including risk factors regarding our company and the common stock being sold in this offering.

Our Company

Neurocrine Biosciences, Inc. is a product-based biopharmaceutical company focused on neurologic and endocrine diseases and disorders. Our product candidates address some of the largest pharmaceutical markets in the world including insomnia, anxiety, depression, cancer and diabetes. We currently have 15 programs in various stages of research and development, including four programs in clinical development and four programs in advanced preclinical development which we expect to progress into human clinical trials in the near future. While we independently develop the majority of our product candidates, we utilize collaborators in four of our 15 programs, including Janssen Pharmaceutica, a subsidiary of Johnson & Johnson, Wyeth-Ayerst, a division of American Home Products, Taisho Pharmaceutical and Eli Lilly.

Our Product Candidates

Our four product candidates in clinical trials address insomnia, cancer, multiple sclerosis and diabetes:

Insomnia. Insomnia is a prevalent neurological disorder in the United States, with up to 62% of the adult population reporting trouble sleeping a few nights per week or more, according to the National Sleep Foundation. Worldwide sedative sales in 1999 totaled over \$1.1 billion. However, most sedatives have side effects such as amnesia and hangover-type effects, especially when combined with alcohol. As a result, we believe there is a significant unmet medical need for an improved sedative.

We are developing NBI-34060, our most advanced drug candidate, for the treatment of insomnia. We completed an initial placebo-controlled efficacy trial, known as a Phase II clinical trial, in 228 subjects in November 1999. Our results demonstrated that the compound was safe and effective in helping subjects with insomnia to fall asleep rapidly without adverse side effects as compared to a placebo. The average time to fall asleep, the primary clinical goal, was 16 minutes with the drug as compared to 34 minutes with a placebo. These results were highly statistically significant and clinically meaningful.

Based on the positive results from this Phase II trial, we have initiated multiple Phase II trials, and we expect to enroll an additional 300 subjects by year-end. We are currently designing large-scale efficacy trials, known as Phase III trials, which are required for commercial approval. We expect these pivotal trials to begin in the second half of 2001.

Brain Cancer. Our drug candidate NBI-3001 treats malignant glioma, a very aggressive form of brain cancer. The Food and Drug Administration has awarded fast track designation for this drug candidate. We completed a safety and efficacy trial in February 2000, and found that this compound was safe and had acceptable tolerability. In addition, of the 27 patients who completed therapy, 63% showed complete or partial reduction in tumor size. We plan to initiate an additional trial in the fourth quarter of 2000 to better establish dosing, safety and efficacy. We also plan to initiate a Phase III trial in mid-2001.

Multiple Sclerosis. We designed NBI-5788, our multiple sclerosis compound, utilizing proprietary technology to treat autoimmune diseases, in which the body's own immune system attacks normal tissue. We have completed safety and preliminary efficacy trials in patients with a recurring form of multiple sclerosis, and we plan to initiate a confirmatory efficacy trial to determine the optimal dose and frequency of administration.

Diabetes. Utilizing our proprietary technology to treat autoimmune diseases, we designed a drug candidate, NBI-6024, to treat a type of diabetes. We recently completed a safety trial in 20 diabetic patients which showed that our compound was safe and well tolerated. We have a safety trial currently underway with an additional 30 patients involving multiple doses, and we plan to initiate several Phase II efficacy trials in 2001. We recently entered into a worldwide development collaboration for this compound with Taisho Pharmaceutical.

In addition to our clinical programs, we have four programs in advanced preclinical development. We expect these programs to progress into human clinical trials in the near future:

Depression and Anxiety--Janssen. We have developed compounds that are blockers of a brain chemical called corticotropin-releasing factor, which has been shown to be involved in both depression and anxiety. We have strong intellectual property and collaborations with experts in this area. We licensed our first corticotropin-releasing factor program to Janssen Pharmaceutica, which then demonstrated efficacy in depression in a 1998 trial. Due to adverse side effects, Janssen decided to discontinue development of its lead compound in favor of another of our earlier-stage backup compounds. We believe Janssen will move this program forward with the clinical development of the backup compound shortly.

Depression and Anxiety--Neurocrine. We are also independently pursuing a second corticotropin-releasing factor program in which we expect to enter into clinical trials to assess safety in late 2000 and early 2001.

Additional Cancers. We believe our NBI-3001 compound discussed above may have therapeutic potential in cancers in addition to brain cancer. We plan to initiate a clinical trial in early 2001 to investigate the safety and preliminary efficacy of our drug in kidney cancer and some types of lung cancer.

Prostate Cancer and Endometriosis. Gonadotropin-releasing hormone is a hormone that regulates sex steroid production. Researchers have linked it to hormone-dependent diseases such as prostate cancer and a common uterine disease known as endometriosis. We have developed blockers of this hormone, and expect to select a final development compound by the end of 2000. We plan to initiate clinical safety trials in the second half of 2001.

We also have seven additional research programs in areas such as neurodegenerative disease, gastrointestinal disorders, obesity, sleep disorders and eating disorders. We believe that these research programs will supply clinical development candidates in the future.

Our Business Strategy

Our business strategy has six major components:

- pursue a large and diversified product portfolio to mitigate clinical and technical risk;
- . target market opportunities with clear clinical and regulatory paths;
- . collaborate with global pharmaceutical companies for development, regulatory and commercialization expertise while retaining North American commercial participation;
- selectively acquire complementary drug candidates in our areas of expertise;
- . collaborate with leading platform technology companies to supplement our research capabilities; and
- . outsource capital intensive, non-strategic activities to focus on our core discovery and development programs.

Other Information

We have no FDA-approved products, and any of our programs may be delayed or terminated for any number of reasons. To date, we have not generated any revenues from the sale of products, and we do not expect to generate any product revenues in the foreseeable future. Since our inception, we have incurred significant net losses, including net losses of \$19.4 million in the first nine months of 2000. As of September 30, 2000, we had an accumulated deficit of \$61.0 million.

Our executive offices are located at 10555 Science Center Drive, San Diego, California 92121, and our telephone number is (858) 658-7600.

THE OFFERING

The following summarizes our offering of common stock. Unless otherwise noted, we are presenting all information in this prospectus as if the underwriters do not exercise the over-allotment option.

The number of shares of our common stock to be outstanding after the offering is based on 22,066,248 shares outstanding as of October 31, 2000. Unless otherwise stated, all share information in this prospectus excludes:

- . 4,179,466 shares of common stock issuable upon exercise of options and warrants outstanding on October 31, 2000 at a weighted average exercise price of \$12.14; and
- . 341,409 shares of common stock available for awards under our stock incentive plans as of October 31, 2000.

Summary Consolidated Financial Data (in thousands, except per share data)

The following table is a summary of our consolidated financial data for the periods presented. You should read this data along with "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in this prospectus, and our consolidated financial statements and related notes incorporated by reference in this prospectus.

	Year Ended December 31,						hs Ended er 30,
	1995	1996	1997		1999		2000
Statement of Operations Data: Revenues:							
Sponsored research and development Sponsored research and development from	\$ 3,000	\$ 9,092	\$14,985	\$ 8,751	\$ 12,171	\$ 9,760	\$ 4,943
related party Milestones and license				3,610	491	501	
fees Grant income and other	2,750	9,000	10,250	2,500	3,000	1,500	5,050
revenues	356	1,124	909	1,176	1,129	831	1,050
Total revenues Operating expenses: Research and	6,106	19,216	26,144	16,037	16,791	12,592	11,043
development General and	7,740	12,569	18,758	21,803	29,169	21,893	28,404
administrative Write-off of acquired in-process research	2,728	3,697	5,664	6,594	7,476	5,587	6,930
and development and licenses				4,910			
Total operating expenses	10,468	16,266	24,422	33,307	36,645	27,480	35,334
Income (loss) from	(4.000)	2 050	4 700	(47.070)	(40.054)	(44.000)	(04 004)
operations	839		3,931	4,000 504	2,851		4,293
adjustments, net			(1,130)	(7,188)	(885)	(1,174)	(47)
Net income (loss) before income taxes		248	214				302
Net income (loss)		\$ 5,874	\$ 5,127	\$(19,955)	\$(16,822)	\$(13,133)	\$(19,374)
Earnings (loss) per share:							
Basic	\$ (0.29) \$ (0.29)	\$ 0.39 \$ 0.36	\$ 0.30 \$ 0.28	\$ (1.10) \$ (1.10)	\$ (0.88) \$ (0.88)	\$ (0.69) \$ (0.69)	\$ (0.88) \$ (0.88)
Basic Diluted	11,684 11,684	,	16,930 18,184	18,141 18,141	19,072 19,072	18,975 18,975	21,900 21,900

September 30, 2000

As
Actual Adjusted(1)

Cash, cash equivalents and short-term investments	\$79,448	\$172,366
Working capital	72,241	165,159
Total assets	96,260	189,178
Long-term debt and capital lease obligations, net of		
current portion	1,910	1,910
Accumulated deficit	(61,046)	(61,046)
Total stockholders' equity	81,435	174,353

⁽¹⁾ The As Adjusted Consolidated Balance Sheet Data summarized above reflects the application of the net proceeds from the sale of the 3,000,000 shares of common stock offered by us at an assumed price of \$33.13 per share and after deducting the underwriting discounts and commissions and our estimated offering expenses.

RISK FACTORS

This offering involves a high degree of risk. You should consider carefully the risks described below, together with the other information in this prospectus, before you make a decision to invest in our common stock. If any of the following risks actually occur, our business, operating results, prospects or financial condition could be materially adversely affected. This could cause the market price of our common stock to decline, and could cause you to lose all or part of your investment.

Risks Related to the Company

We have a history of losses and expect to incur substantial losses and negative operating cash flows for the foreseeable future, and we may never achieve or maintain profitability.

Since our inception, we have incurred significant net losses, including net losses of \$19.4 million in the period from January 1, 2000 through September 30, 2000. As a result of ongoing operating losses, we had an accumulated deficit of \$61.0 million as of September 30, 2000. We are not currently profitable. Even if we succeed in developing and commercializing one or more of our drugs, we expect to incur substantial losses for the foreseeable future and may never become profitable. We also expect to continue to incur significant operating and capital expenditures and anticipate that our expenses will increase substantially in the foreseeable future as we:

- .seek regulatory approvals for our product candidates;
- .develop, formulate, manufacture and commercialize our drugs;
- .implement additional internal systems and infrastructure; and
- .hire additional clinical and scientific personnel.

We also expect to experience negative cash flow for the foreseeable future as we fund our operating losses and capital expenditures. As a result, we will need to generate significant revenues to achieve and maintain profitability. We may not be able to generate these revenues, and we may never achieve profitability in the future. Our failure to achieve or maintain profitability could negatively impact the market price of our common stock.

If we cannot raise additional funding, we may be unable to complete development of our product candidates.

We may require additional funding in order to continue our research and product development programs, including preclinical testing and clinical trials of our product candidates, for operating expenses, and to pursue regulatory approvals for product candidates. We also may require additional funding to establish manufacturing and marketing capabilities in the future. We believe that our existing capital resources, together with interest income and future payments due under our strategic alliances, will be sufficient to satisfy our current and projected funding requirements for at least the next 12 months. However, these resources might be insufficient to conduct research and development programs as planned. If we cannot obtain adequate funds, we may be required to curtail significantly one or more of our research and development programs or obtain funds through arrangements with corporate collaborators or others that may require us to relinquish rights to some of our technologies or product candidates.

Our future capital requirements will depend on many factors, including:

- .continued scientific progress in our research and development programs;
- .the magnitude of our research and development programs;
- .progress with preclinical testing and clinical trials;

- .the time and costs involved in obtaining regulatory approvals;
- .the costs involved in filing and pursuing patent applications and enforcing patent claims;
- .competing technological and market developments;
- .the establishment of additional strategic alliances;
- .the cost of manufacturing facilities and of commercialization activities and arrangements; and
- .the cost of product in-licensing and any possible acquisitions.

We intend to seek additional funding through strategic alliances, and may seek additional funding through public or private sales of our securities, including equity securities. In addition, we have leased equipment and may continue to pursue opportunities to obtain additional debt financing in the future. However, additional equity or debt financing might not be available on reasonable terms, if at all, and any additional equity financings will be dilutive to our stockholders.

Because the development of our product candidates is subject to a substantial degree of technological uncertainty, we may not succeed in developing any of our product candidates.

All of our product candidates are in research or development and we do not expect any of our product candidates to be commercially available for the foreseeable future, if at all. Only a small number of research and development programs ultimately result in commercially successful drugs. Potential products that appear to be promising at early stages of development may not reach the market for a number of reasons. These reasons include the possibilities that the potential products may:

- .be found ineffective or cause harmful side effects during preclinical studies or clinical trials;
- .fail to receive necessary regulatory approvals;
- .be precluded from commercialization by proprietary rights of third parties;
- .be difficult to manufacture on a large scale; or
- .be uneconomical or fail to achieve market acceptance.

If any of these potential problems occurs, we may never successfully market any products.

We may not receive regulatory approvals for our product candidates.

Regulation by government authorities in the United States and foreign countries is a significant factor in the development, manufacture and marketing of our proposed products and in our ongoing research and product development activities. All of our products are in research and development and we have not yet requested or received regulatory approval to commercialize any product from the FDA or any other regulatory body. The process of obtaining these approvals and the subsequent substantial compliance with appropriate federal and state statutes and regulations require spending substantial time and financial resources. If we fail or our collaborators or licensees fail to obtain, or encounter delays in obtaining or maintaining, regulatory approvals, it could adversely affect the marketing of any products we develop, our ability to receive product or royalty revenues and our liquidity and capital resources.

In particular, human therapeutic products are subject to rigorous preclinical testing and clinical trials and other approval procedures of the FDA and similar regulatory authorities in foreign countries. Various federal and state statutes and regulations also govern or influence testing, manufacturing, safety, labeling, storage and record-keeping related to these products and their marketing. Any delay in, or suspension of, our clinical trials will delay the filing of our new drug applications with the FDA and, ultimately, our ability to commercialize our drugs and generate product revenues.

In connection with our clinical trials, we face the risks that:

- .we or the FDA may suspend the trials;
- .we may discover that a product candidate may cause harmful side effects;
- .the results may not replicate the results of earlier, smaller trials;
- .the results may not be statistically significant;
- .patient recruitment may be slower than expected; and
- .patients may drop out of the trials.

In addition, we depend on independent clinical investigators to conduct our clinical trials under their agreements with us. These investigators are not our employees and we cannot control the amount or timing of resources that they devote to our programs. If independent investigators fail to devote sufficient time and resources to our drug development programs, or if their performance is substandard, it will delay the approval of our FDA applications and our introductions of new drugs. These investigators may also have relationships with other commercial entities, some of which may compete with us. If independent investigators assist our competitors at our expense, it could harm our competitive position.

Also, late stage clinical trials are often conducted with patients having the most advanced stages of disease. During the course of treatment, these patients can die or suffer other adverse medical effects for reasons that may not be related to the pharmaceutical agent being tested but which can nevertheless adversely affect clinical trial results.

We depend on continuing our current strategic alliances and developing additional strategic alliances to develop and commercialize our compounds.

We depend upon our corporate collaborators to provide adequate funding for a number of our programs. Under these arrangements, our corporate collaborators are responsible for:

- . selecting compounds for subsequent development as drug candidates;
- . conducting preclinical studies and clinical trials and obtaining required regulatory approvals for these drug candidates; and
- . manufacturing and commercializing any resulting drugs.

Our strategy for developing and commercializing our products is dependent upon maintaining our current arrangements and establishing new arrangements with research collaborators, corporate collaborators and others. We currently have collaborations with Janssen Pharmaceutica, Wyeth-Ayerst, Taisho Pharmaceutical and Eli Lilly. Because we rely heavily on our corporate collaborators, our development of our projects would be substantially delayed if our collaborators:

- fail to select a compound we have discovered for subsequent development into marketable products;
- . fail to gain the requisite regulatory approvals of these products;
- . do not successfully commercialize products that we originate;
- . do not conduct their collaborative activities in a timely manner;
- do not devote sufficient time and resources to our partnered programs or potential products;
- . terminate their alliances with us;
- develop, either alone or with others, products that may compete with our products;

- dispute our respective allocations of rights to any products or technology developed during our collaborations; or
- . merge with a third party that may wish to terminate the collaboration.

These issues and possible disagreements with our corporate collaborators could lead to delays in the collaborative research, development or commercialization of many of our product candidates. Furthermore, disagreements with these parties could require or result in litigation or arbitration, which would be time-consuming and expensive. If any of these issues arise, it may delay the filing of our new drug applications and, ultimately, our generation of product revenues.

We have no manufacturing capabilities. If third-party manufacturers of our product candidates fail to devote sufficient time and resources to our concerns, or if their performance is substandard, our clinical trials and product introductions may be delayed and our costs may rise.

We have in the past utilized, and intend to continue to utilize, third-party manufacturers to produce the drug compounds we use in our clinical trials and for the potential commercialization of our future products. We have no experience in manufacturing products for commercial purposes and do not currently have any manufacturing facilities. Consequently, we depend on several contract manufacturers for all production of products for development and commercial purposes. If we are unable to obtain or retain third-party manufacturers, we will not be able to commercialize our products. The manufacture of our products for clinical trials and commercial purposes is subject to specific FDA regulations. In addition, our third-party manufacturers may not comply with FDA regulations relating to manufacturing our products for clinical trials and commercial purposes or other regulatory requirements now or in the future. Our reliance on contract manufacturers also exposes us to the following risks:

- . Contract manufacturers may encounter difficulties in achieving volume production, quality control and quality assurance, and also may experience shortages in qualified personnel. As a result, our contract manufacturers might not be able to meet our clinical schedules.
- . Switching manufacturers may be difficult because the number of potential manufacturers is limited. It may be difficult or impossible for us to find a replacement manufacturer quickly on acceptable terms, or at all.
- . Our contract manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to successfully produce, store and distribute our products.
- . Drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA, the Drug Enforcement Agency, and corresponding state agencies to ensure strict compliance with good manufacturing practices and other government regulations and corresponding foreign standards. We do not have control over third-party manufacturers' compliance with these regulations and standards.

Our current dependence upon third parties for the manufacture of our products may harm our profit margin, if any, on the sale of our future products and our ability to develop and deliver products on a timely and competitive basis.

If we are unable to retain and recruit qualified scientists or if any of our key senior executives discontinue their employment with us, it will delay our development efforts.

We are highly dependent on the principal members of our management and scientific staff. The loss of any of these people could impede the achievement of our development objectives. Furthermore, recruiting and retaining qualified scientific personnel to perform research and development work in the future will also be critical to our success. We may be unable to attract and retain personnel on acceptable terms given the competition among biotechnology, pharmaceutical and health care companies, universities and non-profit research institutions for experienced scientists. In addition, we rely on members of our Scientific Advisory

Board and a significant number of consultants to assist us in formulating our research and development strategy. All of our consultants and members of the Scientific Advisory Board are employed by employers other than us. They may have commitments to, or advisory or consulting agreements with, other entities that may limit their availability to us.

We may be subject to claims that we or our employees have wrongfully used or disclosed alleged trade secrets of their former employers.

As is commonplace in the biotechnology industry, we employ individuals who were previously employed at other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although no claims against us are currently pending, we may be subject to claims that these employees or we have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. Litigation may be necessary to defend against these claims. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management.

We have no marketing experience, sales force or distribution capabilities and, if our products are approved, we may not be able to commercialize them successfully.

Although we do not currently have any marketable products, our ability to produce revenues ultimately depends on our ability to sell our products if and when they are approved by the FDA. We currently have no experience in marketing or selling pharmaceutical products and we do not have a marketing and sales staff or distribution capabilities. If we fail to establish successful marketing and sales capabilities or fail to enter into successful marketing arrangements with third parties, our product revenues will suffer.

Governmental and third-party payors may subject our products to sales and pharmaceutical pricing controls that could limit our product revenues and delay profitability.

The continuing efforts of government and third-party payors to contain or reduce the costs of health care through various means may reduce our potential revenues. These payors' efforts could decrease the price that we receive for any products we may develop and sell in the future. In addition, third-party insurance coverage may not be available to patients for any products we develop. If government and third-party payors do not provide adequate coverage and reimbursement levels for our products, or if price controls are enacted, our product revenues will suffer.

If physicians and patients do not accept our products, we may not recover our investment.

The commercial success of our products, if they are approved for marketing, will depend upon the medical community and patients accepting our products as being safe and effective. The market acceptance of our products could be affected by a number of factors, including:

- .the timing of receipt of marketing approvals;
- .the safety and efficacy of the products;
- .the emergence of equivalent or superior products; and
- .the cost-effectiveness of the products.

If the medical community and patients do not ultimately accept our products as being safe and effective, we may not recover our investment.

We face intense competition and if we are unable to compete effectively, the demand for our products, if any, may be reduced.

The biotechnology and pharmaceutical industries are subject to rapid and intense technological change. We face, and will continue to face, competition in the development and marketing of our product candidates from academic institutions, government agencies, research institutions and biotechnology and pharmaceutical companies. Competition may also arise from, among other things:

- . other drug development technologies;
- . methods of preventing or reducing the incidence of disease, including vaccines; and
- . new small molecule or other classes of therapeutic agents.

Developments by others may render our product candidates or technologies obsolete or noncompetitive.

We are performing research on or developing products for the treatment of several disorders including anxiety, depression, insomnia, malignant glioma, other forms of cancer and multiple sclerosis, and there are a number of competitors to products in our research pipeline. If one or more of these products or programs are successful, the market for our products may be reduced or eliminated.

Compared to us, many of our competitors and potential competitors have substantially greater:

- . capital resources;
- . research and development resources, including personnel and technology;
- . regulatory experience;
- . preclinical study and clinical testing experience;
- . manufacturing and marketing experience; and
- . production facilities.

Any of these competitive factors could reduce demand for our products. For more specific information about the competition we face, please see the section "Business" under the subheading "Competition" beginning on page 42.

If we are unable to protect our intellectual property, our competitors could develop and market products based on our discoveries, which may reduce demand for our products.

Our success will depend on our ability to, among other things:

- . obtain patent protection for our products;
- . preserve our trade secrets;
- . prevent third parties from infringing upon our proprietary rights; and
- . operate without infringing upon the proprietary rights of others, both in the United States and internationally.

Because of the substantial length of time and expense associated with bringing new products through the development and regulatory approval processes in order to reach the marketplace, the pharmaceutical industry places considerable importance on obtaining patent and trade secret protection for new technologies, products and processes. Accordingly, we intend to seek patent protection for our proprietary technology and compounds. However, we face the risk that we may not obtain any of these patents and that the breadth of claims we obtain, if any, may not provide adequate protection of our proprietary technology or compounds.

We also rely upon unpatented trade secrets and improvements, 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 commercial collaborators, employees and consultants. We also have invention or patent assignment agreements with our employees and some, but not all, of our commercial collaborators and consultants. However, if our employees, commercial collaborators or consultants breach these agreements, we may not have adequate remedies for any such breach, and our trade secrets may otherwise become known or independently discovered by our competitors.

We may not be able to adequately enforce any of our patents to protect our proprietary technology and compounds. Litigation may be necessary to defend against or assert infringement claims to enforce our issued patents and to protect our trade secrets or know-how, or to determine the scope and validity of the proprietary rights of others. Two of our European patents are subject to opposition proceedings which, if successful, could reduce the breadth of some of our proprietary rights. These proceedings relate to our corticotropin-releasing factor receptor patent and our broad patent covering immune therapeutics in diabetes. In addition, interference proceedings declared by the United States Patent and Trademark Office may be necessary to determine the priority of inventions with respect to our patent applications or those of our licensors. Litigation or interference proceedings may fail and, even if successful, may result in substantial costs and be a distraction to management.

The technologies we use in our research as well as the drug targets we select may unintentionally infringe the patents or violate the proprietary rights of third parties. In such cases, we may be required to obtain licenses to patents or proprietary rights of others in order to continue to commercialize our products. However, we may not be able to obtain any licenses required under any patents or proprietary rights of third parties on acceptable terms, or at all. If we do not obtain those licenses, we could encounter delays in product introductions while we attempt to design around those patents, or we could find that we are unable to develop, manufacture or sell products requiring those licenses. We are aware of pending and issued patent claims to certain uses of some of the types of compounds we are developing.

If we are unable to resolve third-party disputes regarding the validity of our patents or our alleged infringement of other third parties' patents, we may not be able to sell some or all of our products. For more information about our intellectual property, please see the section "Business" under the subheading "Intellectual Property" beginning on page 38.

We face potential product liability exposure far in excess of our limited insurance coverage.

The use of any of our potential products in clinical trials, and the sale of any approved products, may expose us to liability claims. These claims might be made directly by consumers, health care providers, pharmaceutical companies or others selling our products. We have obtained limited product liability insurance coverage for our clinical trials in the amount of \$5 million per occurrence and \$5 million in the aggregate. However, insurance coverage is becoming increasingly expensive, and we may not be able to maintain insurance coverage at a reasonable cost or in sufficient amounts to protect us against losses due to liability. We intend to expand our insurance coverage to include the sale of commercial products if we obtain marketing approval for product candidates in development, but we may be unable to obtain commercially reasonable product liability insurance for any products approved for marketing. On occasion, juries have awarded large judgments in class action lawsuits based on drugs that had unanticipated side effects. A successful product liability claim or series of claims brought against us would decrease our cash reserves and could cause our stock price to fall.

Our activities involve hazardous materials and we may be liable for any resulting contamination or injuries.

Our research activities involve the controlled use of hazardous materials. We cannot eliminate the risk of accidental contamination or injury from these materials. If an accident occurs, a court may hold us liable for any resulting damages, which may reduce our cash reserves and force us to seek additional financing.

Risks Related to this Offering

The price of our common stock is volatile.

The market prices for securities of biotechnology and pharmaceutical companies historically have been highly volatile, and the market has from time to time experienced significant price and volume fluctuations that are unrelated to the operating performance of particular companies. Over the course of the last 12 months, the price of our common stock has ranged from approximately \$6 per share to approximately \$47 per share. The market price of our common stock may fluctuate in response to many factors, including:

- . the results of our clinical trials;
- . developments concerning our strategic alliance agreements;
- . announcements of technological innovations or new therapeutic products by us or others;
- . developments in patent or other proprietary rights;
- . future sales of our common stock by existing stockholders;
- . comments by securities analysts;
- . general market conditions;
- . fluctuations in our operating results;
- . government regulation; and
- . public concern as to the safety of our drugs.

If any of the risks described in this "Risk Factors" section occurs, it could cause our stock price to fall dramatically and may expose us to class action securities lawsuits which, even if unsuccessful, would be costly to defend and a distraction to management.

We have broad discretion in how we use the net proceeds of this offering, and we may not use these proceeds effectively.

We have not designated the amount of net proceeds we will use for any particular purpose. Accordingly, our management will have broad discretion as to the application of the net proceeds and could use them for purposes other than those contemplated at the time of this offering. Our stockholders may not agree with the manner in which our management chooses to allocate and spend the net proceeds. Moreover, our management may use the net proceeds for corporate purposes that may not increase our profitability or our market value.

FORWARD-LOOKING STATEMENTS

This prospectus and the information incorporated by reference contain forward-looking statements that involve a number of risks and uncertainties. Although our forward-looking statements reflect the good faith judgment of our management, these statements can only be based on facts and factors currently known by us. Consequently, forward-looking statements are inherently subject to risks and uncertainties, and actual results and outcomes may differ materially from results and outcomes discussed in the forward-looking statements.

Forward-looking statements can be identified by the use of forward-looking words such as "believes," "expects," "hopes" "may," "will," "plan," "intends," "estimates," "could," "should," "would," "continue," "seeks," "pro forma" or "anticipates," or other similar words (including their use in the negative), or by discussions of future matters such as the development of new products, technology enhancements, possible changes in legislation and other statements that are not historical. These statements include but are not limited to statements under the captions "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Business" as well as other sections in this prospectus. A number of factors could cause results to differ materially from those anticipated by the forward-looking statements, including those discussed under "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations." You should be aware that the occurrence of any of the events discussed under "Risk Factors" and elsewhere in this prospectus could substantially harm our business, results of operations and financial condition and that if any of these events occurs, the trading price of our common stock could decline and you could lose all or a part of the value of your shares of our common stock.

The cautionary statements made in this prospectus are intended to be applicable to all related forward-looking statements wherever they may appear in this prospectus. We urge you not to place undue reliance on these forward-looking statements, which speak only as of the date of this prospectus.

USE OF PROCEEDS

Our net proceeds from the sale of shares of common stock offered hereby are estimated to be \$92.9 million, based on the assumed public offering price of \$33.13 per share and after deducting underwriting discounts and commissions and estimated offering expenses payable by us.

Although we do not have any current plans for the application of the offering proceeds other than for working capital and general corporate purposes, in the future we may decide to use the net proceeds for a number of specific purposes, including:

- . clinical trials;
- . research and development expenses;
- . general and administrative expenses;
- . manufacturing expenses; and
- . potential acquisitions of companies and technologies that complement our business, none of which are planned or being negotiated as of the date of this prospectus.

The amounts and timing of our actual expenditures will depend significantly upon a number of factors, including future revenue growth, if any, from licensing and corporate collaborations. As a result, we will retain broad discretion in determining how we will allocate the net proceeds from this offering. Pending these uses, we intend to invest the net proceeds in interest-bearing, investment-grade corporate and government securities.

PRICE RANGE OF COMMON STOCK

Our common stock is traded on the Nasdaq National Market under the symbol "NBIX." The following table sets forth, for the periods indicated, the high and low sales prices per share of our common stock as reported on the Nasdaq National Market:

	Price of Co Sto	mmon
	High	
Year Ended December 31, 1998:		
First Quarter	\$10.13	\$ 7.56
Second Quarter		7.38
Third Quarter	8.13	4.00
Fourth Quarter	8.00	4.13
Year Ended December 31, 1999:		
First Quarter	\$ 7.50	\$ 4.88
Second Quarter	5.88	4.00
Third Quarter	5.94	3.75
Fourth Quarter	29.63	5.38
Year Ended December 31, 2000:		
First Quarter		\$20.75
Second Quarter	39.70	13.94
Third Quarter	46.00	29.13
Fourth Quarter (through November 21, 2000)	44.88	31.38

On November 21, 2000, the last reported sale price of our common stock on the Nasdaq National Market was \$33.13 per share. As of October 31, 2000, there were 130 stockholders of record of our common stock and approximately 6,600 beneficial holders.

DIVIDEND POLICY

We have not declared or paid any cash dividends since our inception. We currently intend to retain our future earnings, if any, for use in the operation and expansion of our business and do not anticipate paying any cash dividends in the foreseeable future.

CAPITALIZATION

The following table sets forth:

- . our capitalization at September 30, 2000; and
- . our capitalization as adjusted to give effect to the sale of 3,000,000 shares of common stock offered hereby at an assumed offering price of \$33.13 per share and the application of the estimated net proceeds.

		September	30,	2000
		Actual		
	(do	ollars in		
Long-term debt, net of current portion	\$	1,910	\$	1,910
Preferred Stock, \$0.001 par value, 5,000,000 shares authorized; no shares issued and outstanding Common Stock, \$0.001 par value, 50,000,000 shares authorized; 22,066,248 shares issued and outstanding actual; 25,066,248 shares issued and				
outstanding as adjusted		22 142,798		25 235,713
stockholders		(177)		(162) (177) (61,046)
Total stockholders' equity				174,353
Total capitalization	\$		\$	176,263

This information excludes:

- . 3,605,648 shares of common stock reserved for the exercise of options outstanding as of September 30, 2000 at a weighted average exercise price of \$10.67 per share;
- . 355,504 shares of common stock reserved for the exercise of warrants outstanding as of September 30, 2000 at a weighted average exercise price of \$10.50 per share;
- . 233,778 shares of common stock reserved for issuance under our employee stock purchase plan; and
- . 563,607 shares of common stock reserved for issuance under our other stock incentive plans but not subject to awards as of September 30, 2000.

Subsequent to September 30, 2000, we issued 3,811 shares upon the exercise of options and under the employee stock purchase plan at a weighted average price of \$7.44 and 222,125 options at a weighted average exercise price of \$38.61.

SELECTED CONSOLIDATED FINANCIAL DATA

The following selected consolidated financial data should be read in conjunction with our consolidated financial statements and the related notes and "Management's Discussion and Analysis of Financial Condition and Results of Operations" included elsewhere in, or incorporated by reference into, this prospectus. The selected consolidated statement of operations and balance sheet data for the years ended December 31, 1995, 1996, 1997, 1998 and 1999 are derived from our audited consolidated financial statements. The selected consolidated statement of operations data for the nine months ended September 30, 1999 and 2000 and the selected consolidated balance sheet data as of September 30, 2000 are derived from our unaudited consolidated financial statements. In the opinion of our management, our unaudited consolidated financial statements include all adjustments, consisting of normal recurring adjustments, necessary for a fair presentation of this information. The operating results for the nine months ended September 30, 2000 are not necessarily indicative of results that may be expected for the year ended December 31, 2000 or any other interim period or future year.

Year Ended December 31,						Nine Mont Septemb	
	1995	1996	1997	1998	1999	1999	2000
		(in t	housands,	except pe	r share da	ta)	
Statement of Operations Data: Revenues: Sponsored research and development Sponsored research and development from	\$ 3,000	\$ 9,092	\$14,985	\$ 8,751	\$ 12,171	\$ 9,760	\$ 4,943
related party Milestones and license				3,610	491	501	
fees Grant income and other	2,750	9,000	10,250	2,500	3,000	1,500	5,050
revenues	356 	1,124	909	1,176	1,129	831	1,050
Total revenues Operating expenses: Research and	6,106	19,216	26,144	16,037	16,791	12,592	11,043
development General and	7,740	12,569	18,758	21,803	29,169	21,893	28,404
administrative Write-off of acquired in-process research and development and	2,728	3,697	5,664	6,594	7,476	5,587	6,930
licenses				4,910			
Total operating expenses	10,468	16,266	24,422	33,307	36,645	27,480	35,334
Income (loss) from operations	(4,362) 839 177	2,598 574	3,931	4,000 504	2,851 1,066	2,040	4,293 973
Net income (loss) before income taxes	(3,346)	6,122 248	5,341 214	(19,954) 1	(16,822)	(13, 133)	(19,072) 302
Net income (loss)			\$ 5,127	\$(19,955)	\$(16,822)	\$(13,133) =======	
Earnings (loss) per share: Basic	\$ (0.29) \$ (0.29)	\$ 0.39 \$ 0.36	\$ 0.30 \$ 0.28	\$ (1.10) \$ (1.10)	\$ (0.88) \$ (0.88)	\$ (0.69) \$ (0.69)	\$ (0.88) \$ (0.88)
Basic Diluted	11,684 11,684	,	16,930 18,184	18,141 18,141		18,975 18,975	21,900 21,900

December 31,

	1995	1996	1997	1998	1999	September 30, 2000
			(in thou	ısands)		
Balance Sheet Data: Cash, cash equivalents						
and short-term	\$ 18,696	\$ 69,920	\$ 75,092	\$ 62,670	\$ 91,098	\$ 79,448
Working capital	16,989	68,023	69,362	60,064	86,168	72,241
Total assets Long-term debt and	24,012	77,957	91,903	80,529	109,222	96,260
capital lease obligations	1,631	847	722	2,247	2,139	1,910
Accumulated deficit Total stockholders'	(15,895)	(10,022)	(4,895)	(24,850)	(41,672)	(61,046)
equity	19,225	72,767	83,152	71,958	96,354	81,435

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following Management's Discussion and Analysis of Financial Condition and Results of Operations section contains forward-looking statements which involve risks and uncertainties, pertaining generally to the expected continuation of our collaborative agreements, the receipt of research payments thereunder, the future achievement of various milestones in product development and the receipt of payments related thereto, the potential receipt of royalty payments, preclinical testing and clinical trials of potential products, the period of time that our existing capital resources will meet our funding requirements, and our financial results and operations. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of various factors, including those set forth below and those outlined in our 1999 Annual Report on Form 10-K filed with the Securities and Exchange Commission.

Overview

We incorporated in California in 1992 and we reincorporated in Delaware in 1996. Since we were founded, we have been engaged in the discovery and development of novel pharmaceutical products for diseases and disorders of the central nervous and endocrine systems. To date, we have not generated any revenues from the sale of products, and we do not expect to generate any product revenues in the foreseeable future. We have funded our operations primarily through private and public offerings of our common stock and payments under research and development agreements. We are developing a number of products with corporate collaborators and will rely on existing and future collaborators to meet funding requirements. We expect to generate future net losses in anticipation of significant increases in operating expenses as products are advanced through the various stages of clinical development. As of September 30, 2000, we have incurred a cumulative deficit of \$61.0 million and we expect to incur operating losses in the future, which may be greater than losses in prior years.

Results of Operations

Nine Months ended September 30, 2000 and 1999

Revenues for the nine months ended September 30, 2000 were \$11.0 million compared with \$12.6 million for the nine months ended September 30, 1999. Although we recorded \$5.4 million under the Taisho Pharmaceutical collaboration during the first nine months of 2000, this increase in revenues was offset by the conclusion of the Novartis Pharmaceuticals collaboration in January 2000 and a portion of the Eli Lilly collaboration in October 1999. Under the Novartis and Eli Lilly agreements, we received sponsored research and development revenues in 1999 which did not recur in 2000. We also received \$1.5 million in milestone payments from Wyeth-Ayerst Laboratories during 1999.

During the third quarter of 2000, we received a \$3.0 million license fee from Taisho, which was recognized as income. In the fourth quarter of 2000, we are required to adopt Staff Accounting Bulletin 101 issued by the SEC. This pronouncement provides guidance on the recognition of up front payments received under research and development arrangements. Under the pronouncement, the \$3.0 million license fee will be deferred and recognized as income over the life of the Taisho agreement, estimated at five years.

For the nine months ended September 30, 2000 and 1999, research and development expenses were \$28.4 million and \$21.9 million, respectively. The increase in expenses reflects higher costs associated with expanding clinical development activities and the addition of scientific personnel. We expect these expenses to rise over the remainder of 2000 as we expand clinical studies on current compounds and new compounds advance to the clinical development stages. Also included in the nine months ended September 30, 2000 were \$1.1 million of non-cash charges associated with the employee stock purchase program and options granted to consultants, compared to \$118,000 in the nine months ended September 30, 1999.

For the nine months ended September 30, 2000 and 1999, general and administrative expenses totaled \$6.9 million and \$5.6 million, respectively. This increase resulted primarily from business development

consulting expense and non-cash charges associated with the employee stock purchase program and options granted to consultants. In the nine-month periods ended September 30, 2000 and 1999, business development consulting expense was \$580,000 and \$8,000, respectively, and non-cash charges associated with the employee stock purchase program and options granted to consultants were \$876,000 and \$134,000, respectively. We expect these expenses to continue to rise over the remainder of 2000 as we expand clinical studies.

Interest income increased to \$4.5 million during the nine months ended September 30, 2000 compared to \$2.2 million for the same period last year. The increase was primarily due to higher investment balances generated by our private placement of our common stock. Completed in December 1999, this transaction generated net proceeds of \$39.3 million. We anticipate interest earnings for the remainder of the 2000 to decline from quarter-to-quarter as we will need cash reserves to fund progressive clinical trials and hire additional scientific personnel.

Net loss for the first nine months of 2000 was \$19.4 million, or \$0.88 per share, compared to \$13.1 million, or \$0.69 per share, for the same period in 1999. The increase in net loss resulted from a decline in revenues of \$1.6 million, an increase in operating expenses of \$7.9 million and an increase in Japanese income taxes of \$300,000 associated with the Taisho collaboration. These factors were partially offset by an increase in interest income of \$2.3 million. Also, during the first nine months of 1999, we recorded equity in Neuroscience Pharma (NPI), Inc. losses of \$1.2 million. We expect net losses to increase this year due to higher operating costs associated with the advancement of our compounds through progressive clinical development and the addition of scientific personnel.

To date, our revenues have come from funded research and achievements of milestones under corporate collaborations. The nature and amount of these revenues from period-to-period may lead to substantial fluctuations in our results of quarterly revenues and earnings. Accordingly, results and earnings of one period are not predictive of future periods.

Years ended December 31, 1997, 1998 and 1999

Our revenues for the year ended December 31, 1999 were \$16.8 million compared with \$16.0 million in 1998, and \$26.1 million in 1997. Although similar in amount, revenues for 1999 and 1998 had a different composition resulting from several significant events. During 1999, we entered into a collaborative agreement with Wyeth-Ayerst and agreed to a two-year extension of our 1995 collaboration with Janssen Pharmaceutica. Revenues received in 1999 under the new agreements consisted of \$5.4 million of sponsored research and development funding and \$3.0 million in milestone achievements.

The increase in 1999 revenues generated by the new agreements was offset by a decline in revenues received under the Eli Lilly, Novartis and Neuroscience Pharma (NPI), Inc. collaborations that were concluded during the year. Revenues in 1998 for sponsored research and development funding and milestone achievements under these agreements were \$12.2 million and \$2.3 million, respectively.

Revenues recorded during 1997 included the initiation of the Eli Lilly collaboration and the final year of sponsored research funding under the 1995 Janssen agreement. Revenues in 1997 for sponsored research and development funding and milestone achievements under these and the Novartis agreements were \$20.0 million and \$5.3 million, respectively.

Research and development expenses increased to \$29.2 million during 1999 compared with \$21.8 million in 1998 and \$18.8 million in 1997. Increased expenses reflect advancement of our drug candidates through progressive clinical development phases. We expect to incur significant increases in future periods as later phases of development typically involve an increase in the scope of studies and number of patients treated.

General and administrative expenses increased to \$7.5 million during 1999 compared with \$6.6 million in 1998 and \$5.7 million in 1997. Increased expenses resulted from additional professional services, including

patent and legal services, to support our expanded clinical development efforts. We anticipate similar increases in general and administrative expenses in the future as these efforts continue.

During 1998, we wrote-off acquired in-process research and development costs of \$4.9 million. This amount included the acquisition of Northwest NeuroLogic and the in-licensing of drug candidates for our insomnia and malignant glioma programs. Both of the in-licensed programs are currently under clinical development.

Interest income decreased to \$3.1 million during 1999 compared with \$4.2 million for 1998 and \$4.1 million in 1997. The decrease in 1999 compared with 1998 and 1997 primarily resulted from lower investment balances. Management anticipates an increase in interest income during future periods resulting from cash reserves generated by the sale of our common stock in December 1999 and increased revenues from anticipated collaborations.

In December 1999, we sold our investment in Neuroscience Pharma (NPI), Inc. and recorded a gain of \$526,000. Our proportionate share of NPI operating losses during 1999, 1998 and 1997 were \$764,000, \$3.4 million and \$1.1 million, respectively. In addition, we recorded a write-down in the investment value of \$646,000 during 1999 and \$3.8 million during 1998 relating to the decline in cash redemption value of the NPI preferred shares.

Net loss for 1999 was \$16.8 million, or \$0.88 per share, compared to net loss of \$20.0 million, or \$1.10 per share, for 1998 and net income of \$5.1 million or \$0.30 per share for 1997. Management expects to incur similar operating losses in the next two to three years as our clinical development efforts continue to grow.

To date, our revenues have come principally from funded research and achievements of milestones under corporate collaborations. The nature and amount of these revenues from period to period may lead to substantial fluctuations in the results of year-to-year revenues and earnings. Accordingly, results and earnings of one period are not predictive of future periods.

Liquidity and Capital Resources

At September 30, 2000, our cash, cash equivalents, and short-term investments totaled \$79.4 million compared with \$91.1 million and \$62.7 million at December 31, 1999 and 1998, respectively. The increase in cash balances at December 31, 1999 resulted from the private placement of our common stock which resulted in net cash proceeds of \$39.3 million. The decline in cash balances from December 31, 1999 to September 30, 2000 reflects the funding of progressive clinical development programs and the addition of scientific personnel.

Net cash used in operating activities during the first nine months of 2000 was \$12.8 million compared with \$12.4 million for the same period last year. The increase in net cash used during 2000 resulted primarily from the addition of scientific personnel and the funding of clinical development programs. We expect cash usage to continue during the year as we expand our clinical trial efforts. Net cash used by operating activities during fiscal year 1999 was \$10.3 million compared with \$10.7 million in fiscal year 1998 and net cash provided of \$11.0 million in fiscal year 1997. The decrease in cash used in operations during 1999 compared with 1998 resulted primarily from increased sponsored research and milestone revenues received under our collaborations during 1999. The increase in cash used during 1998 compared with 1997 resulted primarily from higher sponsored research and milestone revenues received under our collaborations during 1997, which included a \$5.0 million lump sum payment from Eli Lilly, in addition to lower operating expenses.

Net cash used in investing activities during the first nine months of 2000 was \$53,000 compared with net cash provided of \$7.9 million during the same period in 1999. The increase in cash used resulted primarily from the timing differences in the investment purchases, sales, maturities and the fluctuations in our portfolio mix between cash equivalents and short-term holdings. We expect similar fluctuations to continue over the

remainder of the year. Net cash used by investing activities during fiscal year 1999 was \$21.2 million compared with net cash provided of \$4.7 million in fiscal year 1998 and net cash used of \$7.2 million in fiscal year 1997. The fluctuations in cash used resulted primarily from the timing differences in the investment purchases, sales, maturities and the fluctuations in our portfolio mix between cash equivalents and short-term investment holdings. We expect similar fluctuations to continue in future periods. Capital equipment purchases are expected to be \$2.4 million for the fiscal year 2000, of which \$2.0 million will be financed through leasing arrangements.

Net cash provided by financing activities during 2000 was \$2.8 million compared to \$421,000 during 1999. Proceeds from the issuance of common stock upon exercises of employee stock options provided cash during 2000, while proceeds from capital leases and issuances of common stock provided cash in 1999. Management anticipates an increase in proceeds from capital leasing during the last quarter of 2000. Net cash provided by financing activities during fiscal year 1999 was \$41.0 million compared with \$1.9 million and \$659,000 during fiscal years 1998 and 1997, respectively. Cash provided during 1999 resulted from net proceeds received from the private sale of our common stock and exercise of employee stock options. Cash provided during 1998 resulted from capital lease financing of equipment purchases. Cash provided during 1997 resulted from the issuance of our common stock upon the exercises of stock options and warrants and proceeds received from a note payable used to finance the purchase of land.

On July 21, 2000, we signed an exclusive agreement with Taisho Pharmaceutical Co., Ltd. The agreement provides Taisho the exclusive rights to NBI-6024, our altered peptide ligand for diabetes in Europe and Asia. The collaboration includes licensing and option fees, payments for certain development and regulatory milestones, and significant reimbursement of the worldwide development expenses. In addition, we will receive payments based on sales upon commercialization of products in Europe and Japan. We have retained all rights to NBI-6024 in North America, but Taisho has exercised its option to negotiate with respect to these rights and we are in currently in negotiations with Taisho. As of September 30, 2000, we have received \$2.0 million in option fees, \$3.0 million in license fees and \$388,000 in reimbursement for development expenses related to this collaboration.

In September 1999, we signed an amendment to our 1995 agreement with Janssen Pharmaceutica, N.V. The amendment provides for a new sponsored research period designed to identify new corticotropin-releasing factor receptor antagonists which will be subject to the terms of the original agreement signed in 1995. The term of the amendment is from April 1999 through February 2001. Under the agreement, we will receive \$5.0 million in sponsored research funding, up to \$3.5 million in milestone achievements, \$500,000 for research already conducted under this technology and reimbursement of all outside and third-party costs associated with the project. As of September 30, 2000, we have received \$3.9 million in sponsored research and \$684,000 in reimbursed third-party costs.

In March 1999, we entered into an agreement with Wyeth-Ayerst Laboratories, the pharmaceutical division of American Home Products, on the research, development and commercialization of compounds which modulate excitatory amino acid transporters for the treatment of neurodegenerative and psychiatric diseases.

The Wyeth-Ayerst agreement includes sharing proprietary technologies, funding for research, payments for milestones reached, plus royalties on sales from products resulting from the collaboration. Under the terms of the agreement, we expect to receive three to five years of funding for research and development as well as worldwide royalties on commercial sales of products that result from the collaboration. Wyeth-Ayerst will also provide us with access to chemical libraries for screening within the collaborative field. As of September 30, 2000, we have received \$5.3 million in sponsored research payments and \$3.0 million for the achievement of four milestones.

During 1998, we expensed acquired in-process research and development of \$4.9 million. These charges consisted of \$4.2 million for the acquisition of Northwest NeuroLogic, through which we received licenses to

the melanocortin receptor and excitatory amino acid transporters programs, and \$710,000 for licenses to an insomnia and brain cancer compounds. We performed scientific due diligence related to the acquired projects and because they were based on narrow scientific hypothesis, we concluded that none of these programs had alternative future uses.

The nature and efforts required to develop the acquired in-process research and development into commercially viable products include research to identify a clinical candidate, preclinical development, clinical testing, FDA approval and commercialization. This process may cost in excess of \$100 million and can take as long as 10 years to complete. It is also important to note that if a clinical candidate is identified, the further development of that candidate can be halted or abandoned at any time due to a number of factors. These factors include, but are not limited to, funding constraints, safety or a change in market demand.

Because of our limited financial resources, our strategy to develop some of our programs is to enter into collaborative agreements with major pharmaceutical companies. Through these collaborations, we could partially recover our research costs through contract research and milestone revenues. The collaborators would then be financially responsible for all clinical development and commercialization costs.

In May 1998, when we acquired the in-process research and development programs from Northwest NeuroLogic, we estimated the costs to identify a clinical candidate and provide minimal research support during the clinical development stages for the melanocortin receptor program to be \$15.4 million over an 8-year period. Costs to identify a clinical candidate and provide minimal research support during the clinical development stages of the excitatory amino acid transporters program were estimated at \$22.4 million. Estimated revenues from the collaborative arrangements were anticipated to reduce our net costs. The clinical development and commercialization costs were to be completely funded by the collaborator.

During fiscal year 2000, we anticipate that our gross costs for continued research on these programs will approximate \$5 million. Our research efforts may not result in clinical candidates for either compound. We intend to collaborate on the melanocortin receptor technology. We would expect the collaborator to then be responsible for the clinical development, commercialization and funding. Our excitatory amino acid transporters program is currently under a collaborative agreement with Wyeth-Ayerst. Consequently, we cannot estimate the time or resources they will commit to the development of this program.

Our insomnia and brain cancer compounds are both in the early stages of clinical testing. During 2000, we expect to spend approximately \$20 million on additional clinical testing of the brain cancer and insomnia compounds. We expect the clinical testing of both compounds to continue for at least the next two years, but our efforts may not result in commercially viable products. If our efforts were completely successful and we did not collaborate on these compounds, we estimate that each compound could cost an additional \$50-\$150 million and take up to five years to reach commercial viability.

For each of our programs, we periodically assess the scientific progress and merits of the programs to determine if continued research and development is economically viable. Certain of our programs have been terminated due to the lack of scientific progress and lack of prospects for ultimate commercialization. Because of the uncertainties associated with research and development of these programs, we may not be successful in achieving commercialization. As such, the ultimate timeline and costs to commercialize a product cannot be accurately estimated.

We believe that our existing capital resources, together with interest income and future payments due under our strategic alliances, will be sufficient to satisfy our current and projected funding requirements for at least the next 12 months. However, we cannot assure you that these capital resources and payments will be sufficient to conduct our research and development programs as planned. The amount and timing of expenditures will vary depending upon a number of factors, including progress of our research and development programs.

We will require additional funding to continue our research and product development programs, to conduct preclinical studies and clinical trials, for operating expenses, to pursue regulatory approvals for our product candidates, for the costs involved in filing and prosecuting patent applications and enforcing or defending patent claims, if any, the cost of product in-licensing and any possible acquisitions, and we may require additional funding to establish manufacturing and marketing capabilities in the future. We may seek to access the public or private equity markets whenever conditions are favorable. We may also seek additional funding through strategic alliances and other financing mechanisms, potentially including off-balance sheet financing. We cannot assure you that adequate funding will be available on terms acceptable to us, if at all. If adequate funds are not available, we may be required to curtail significantly one or more of our research or development programs or obtain funds through arrangements with collaborators or others. This may require us to relinquish rights to certain of our technologies or product candidates.

We expect to incur operating losses over the next several years as our research, development, preclinical studies and clinical trial activities increase. To the extent that we are unable to obtain third-party funding for such expenses, we expect that increased expenses will result in increased losses from operations. We cannot assure you that we will successfully develop our products under development or that our products, if successfully developed, will generate revenues sufficient to enable us to earn a profit.

Interest Rate Risk

We are exposed to interest rate risk on our short-term investments and on our long-term debt. The primary objective of our investment activities is to preserve principal while at the same time maximizing yields without significantly increasing risk. To achieve this objective, we invest in highly liquid and high quality government and other debt securities. To minimize our exposure due to adverse shifts in interest rates, we invest in short-term securities with maturities of less than 44 months. If a 10% change in interest rates were to have occurred on September 30, 2000, this change would not have had a material effect on the fair value of our investment portfolio as of that date. Due to the short holding period of our investments, we have concluded that we do not have a material financial market risk exposure.

Interest risk exposure on long-term debt relates to our note payable, which bears a floating interest rate of prime plus one quarter percent (9.50% at September 30, 2000, 8.75% at December 31, 1999 and 8.00% at December 31, 1998). At September 30, 2000, December 31, 1999 and 1998, the note balance was \$348,000, \$461,000 and \$610,000, respectively. This note is payable in equal monthly installments through January 2003. Based on the balance of our long-term debt, we have concluded that we do not have a material financial market risk exposure.

Cautionary Note on Forward-Looking Statements

Our business is subject to significant risks, including but not limited to, the risks inherent in our research and development activities, including the successful continuation of our strategic collaborations, the successful completion of clinical trials, the lengthy, expensive and uncertain process of seeking regulatory approvals, uncertainties associated both with the potential infringement of patents and other intellectual property rights of third parties, and with obtaining and enforcing our own patents and patent rights, uncertainties regarding government reforms and of product pricing and reimbursement levels, technological change and competition, manufacturing uncertainties and dependence on third parties. Even if our product candidates appear promising at an early stage of development, they may not reach the market for numerous reasons. Such reasons include the possibilities that the product will be ineffective or unsafe during clinical trials, will fail to receive necessary regulatory approvals, will be difficult to manufacture on a large scale, will be uneconomical to market or will be precluded from commercialization by proprietary rights of third parties. For more information about the risks we face, see the section "Risk Factors" beginning on page 5.

New Accounting Pronouncements

In December 1999, the SEC issued Staff Accounting Bulletin No. 101, "Revenue Recognition in Financial Statements." SAB 101 provides guidance in applying generally accepted accounting principles to revenue recognition in financial statements, including the recognition of nonrefundable up-front fees received in conjunction with a research and development arrangement.

We are required to adopt this pronouncement effective in the fourth quarter of 2000. As required by the adoption, we reviewed all up-front payments, license fees and milestones received in the current and prior years. Up-front payments have been received for program cost reimbursements incurred during a negotiation period. License fees are received in exchange for a grant to use our proprietary technologies on an as-is basis, for the term of the collaborative agreement. Milestones are received for specific scientific achievements determined at the beginning of the collaboration. These achievements are remote and unpredictable at the onset of the collaboration and are based on the success of scientific efforts.

Based on that review, we determined that the \$3.0 million in license fees received from Taisho and recognized as revenue during the third quarter of 2000, will be subject to the adoption of SAB 101. We are continuing to review the impact of the adoption on milestones revenues. Currently, we believe that \$3.0 million in milestones payments received from Wyeth-Ayerst during 1999 may also be subject to the accounting provisions of SAB 101. All other fees received relate to agreements under which the scientific milestones have been achieved and the research portion of the collaboration has been completed, or the agreements have been terminated entirely.

In accordance with APB 20, the adoption of SAB 101 will be recognized by including the cumulative effect of the change in accounting principle in the net loss for the fourth quarter of 2000. We estimate that our otherwise reported net loss for the year ended December 31, 2000 will increase by approximately \$2.8 million. This change results from the deferral of revenue associated with the Taisho agreement. These deferred revenues will then be amortized as income at \$600,000 in each of the years 2001 through 2004 and \$350,000 in 2005. We are continuing to review the impact of SAB 101 on milestone payments and will adjust the cumulative effect of the accounting change if appropriate.

The following section contains forward-looking statements which involve risks and uncertainties. These statements are often preceded by words such as "intend," "anticipate," "believe," "expect" and similar words. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of a number of factors, including those set forth under the section "Risk Factors" and elsewhere in this prospectus.

Neurocrine Biosciences, Inc. is a product-based biopharmaceutical company focused on neurologic and endocrine diseases and disorders. Our product candidates address some of the largest pharmaceutical markets in the world including insomnia, anxiety, depression, cancer and diabetes. We currently have 15 programs in various stages of research and development. Of these 15 programs, four programs are in clinical development and four programs are in advanced preclinical development which we expect to progress into human clinical trials in the near future. We believe the other seven research projects will help supply clinical development candidates in the future. While we independently develop the majority of our product candidates, we utilize collaborators in four of our 15 programs, including Janssen Pharmaceutica, a subsidiary of Johnson & Johnson, Wyeth-Ayerst Laboratories, a division of American Home Products, Taisho Pharmaceutical and Eli Lilly. Under these collaborations, we receive funds for current product development, but retain rights to North American commercial participation in addition to receiving milestone payments and royalties on worldwide product sales.

Our Business Strategy

Our goal is to become the leading therapeutic product-based biopharmaceutical company focused on neurologic and endocrine diseases and disorders. There are six key elements to our business strategy:

Build a Large and Diversified Product Portfolio to Mitigate Overall Clinical and Technical Risk. We believe that by building a large and diverse product pipeline, we can mitigate some of the risks associated with drug development. We currently have 15 programs in various stages of research and development with four projects in clinical development, four programs in advanced preclinical development which we expect to progress into the clinic in the near future, and seven research projects to supply clinical compounds for the future. We take a portfolio approach to managing our pipeline that balances the size of the market opportunities with clear and defined clinical and regulatory paths to approval. We do this to ensure that we focus our internal development resources on innovative therapies with high probabilities of technical and commercial success.

Identify Novel Drug Targets for the Development of Innovative Therapies to Address Large Unmet Market Opportunities. We utilize a multidisciplinary research approach to identify and validate novel drug targets for internal development or collaboration. For example, corticotropin-releasing factor, which is believed to be the central mediator of the body's stress response, may represent the first new breakthrough for anxiety and depression in over 20 years. Gonadotropin-releasing factor antagonists, compounds designed to reduce the secretions of sex steroids, may represent the first novel non-injectible means of treatment of prostate cancer and endometriosis. Melanocortin and hypocretin modulators are compounds which affect proteins in the brain believed to be involved in many activities of the body. We believe these compounds build upon our franchise and expertise in obesity and sleep disorders. The creativity and productivity of our discovery research group will continue to be a critical component for our continued success. Our team of approximately 100 biologists and chemists have a goal of delivering three innovative clinical compounds over the next five years to fuel our research and development pipeline.

Establish Corporate Collaborations with Global Pharmaceutical Companies to Assist in the Development of Our Products and Mitigate Financial Risk While Retaining Significant Commercial Upside. We leverage the development, regulatory and commercialization expertise of our corporate collaborators to accelerate the development of our potential products while typically retaining commercial or co-promotional rights in North America. We intend to further leverage our resources by continuing to enter into strategic alliances to enhance

our internal development and commercialization capabilities. To date, we have entered into strategic alliances with:

- . Janssen, to focus on corticotropin-releasing factor receptor antagonists to treat anxiety and depression;
- . Wyeth-Ayerst, to research, develop and commercialize compounds to treat neurodegenerative and psychiatric diseases;
- . Taisho, to develop our compound to treat a type of diabetes in which the body does not produce enough insulin; and
- Eli Lilly, to collaborate in the discovery, development and commercialization of treatments of central nervous system disorders, including obesity.

Acquire Rights to Complementary Drug Candidates. We plan to continue to selectively acquire rights to products in various stages of development to take advantage of our drug development capabilities. In May 1998, we licensed from the National Institutes of Health an interleukin 4 fusion toxin which is currently in clinical trials for recurrent malignant glioma. In May 1998, we acquired Northwest NeuroLogic, Inc. and thereby considerably expanded our research pipeline. Through this acquisition, we acquired the technology and intellectual property rights surrounding excitatory amino acid transporters, a portion of which is now in collaboration with Wyeth-Ayerst. We also acquired from Northwest NeuroLogic melanocortin technology and other intellectual property that we are developing. In June 1998, we licensed exclusive worldwide commercial rights for NBI-34060, our compound for the treatment of insomnia, from DOV Pharmaceuticals and have since moved this compound into advanced clinical development.

Supplement Our Internal Research Capabilities by Collaborating with Leading Platform Technology Companies. We believe we can complement our multidisciplinary research process by selectively accessing new technologies from platform technology companies. Through creative collaborations with technology leaders, we believe we can accelerate and expand our internal discovery efforts. We have entered into a number of alliances with other platform technology companies to enhance our drug discovery and development capabilities. These alliances include:

- our alliance with Rigel, Inc. to use Rigel's intellectual property and expertise to discover novel protein targets involved in neural cell and antibody activation;
- our alliance with Arena Pharmaceuticals involving the application of Arena's constitutive activation technology to a family of receptors;
- . our alliance with Array Biopharma, Inc. to design and synthesize a focused library of small molecules; and
- . our alliance with Caliper Technologies Corp. to utilize Caliper's proprietary microfluidics technology to screen against our targets.

Outsource Capital Intensive and Non-Strategic Activities. We intend to focus our resources on research and development activities by outsourcing our requirements for clinical drug supply and certain preclinical studies and clinical monitoring activities. We believe the availability of skilled contract manufacturers and contractors will allow us to cost-effectively meet these needs and thereby allow us to concentrate our full attention and resources on our core discovery and development programs to generate additional product opportunities.

Our Product Pipeline

Drogram

The following table summarizes our most advanced product candidates currently in preclinical or clinical development and those currently in research, and is followed by detailed descriptions of each program:

Compound

Program	Compound	Targeted Indication	Status	Commercial Rights
Products Under Developmen	t:			
GABA-A Agonist	NBI-34060	Insomnia	Phase II	Neurocrine
CRF R\\1\\ Antagonist		Anxiety, Depression	Preclinical	Janssen/Neurocrine
CRF R\\1\\ Antagonist		Anxiety, Depression	Preclinical	Neurocrine
IL-4 Fusion Toxin	NBI-3001	Malignant Glioma	Phase II	Neurocrine
IL-4 Fusion Toxin	NBI-3001	Additional Cancers (kidney, lung)	Preclinical	Neurocrine
Altered Peptide Ligand	NBI-5788	Multiple Sclerosis	Phase II	Neurocrine
Altered Peptide Ligand	NBI-6024	Type I Diabetes	Phase I	Taisho/Neurocrine
GnRH Antagonist		Endometriosis, Prostate Cancer	Development	Neurocrine
Research:				
Excitatory Amino Acid Transporters		Neurodegenerative Diseases	Research	Wyeth-Ayerst/Neurocrine
CRF R\\1\\ Antagonist		Gastrointestinal Disorders	Research	Neurocrine
CRF R\\2\\ Antagonist		Eating Disorders	Research	Neurocrine
Urocortin/CRF R\\2\\ Agonist		Obesity	Research	Eli Lilly
Melanocortin Receptor Agonist		Obesity	Research	Neurocrine
Melanin Concentrating Hormone Antagonist		Obesity	Research	Neurocrine
Hypocretin Agonist/Antagonist		Sleep Disorders	Research	Neurocrine

Targeted Indication

Ctatuc

Commorcial Dights

[&]quot;Phase II" indicates that the we or our collaborators are conducting clinical trials on groups of patients afflicted with a specific disease in order to determine preliminary efficacy, optimal dosages and expanded evidence of safety.

[&]quot;Phase I" indicates that we or our collaborators are conducting clinical trials to determine early safety profile, maximally tolerated dose and pharmacological properties of the product in human volunteers.

[&]quot;Preclinical" indicates that a drug candidate is being selected or has been selected and is undergoing toxicology studies and manufacturing to allow for Phase I clinical trials.

[&]quot;Development" indicates that lead compounds have been discovered that meet certain laboratory and preclinical criteria. These compounds may undergo structural modification and more extensive evaluation prior to selection for preclinical development.

[&]quot;Research" indicates identification and evaluation of compounds in laboratory and preclinical models.

GABA-A Agonist

Insomnia is a prevalent neurological disorder in the United States, with up to 62% of the adult population reporting trouble sleeping a few nights per week or more, according to the National Sleep Foundation. Despite this widespread prevalence, insomnia remains a disorder with high unmet medical needs, including the ability to maintain sleep throughout the night without next-day residual effects. Researchers have found that insomnia can be treated by drugs that interact with the site of action of a natural brain chemical involved in promoting and maintaining sleep. This chemical is called gamma amino-butyric acid, or GABA, and the site of action is called the GABA-A receptor.

During the 1980s, a class of drugs that targets the GABA-A receptor, known as benzodiazepines, were used as sedatives to treat insomnia. The most well-known of the benzodiazepines is Valium(R). This class of drugs produced several undesirable side effects, including negative interactions with other central nervous system depressants, such as alcohol, the development of tolerance upon repeat dosing, insomnia following discontinuation of dosing, hangover effects the next day, and impairment of coordination and memory. Memory impairment, which can include amnesia for events occurring prior to and after drug administration, is of particular concern in the elderly whose cognitive function may already be impaired by the aging process. During the late 1980s, a class of drugs targeting a specific site on the GABA-A receptor, known as non-benzodiazepines, were developed. The non-benzodiazepines reduce the side effects associated with benzodiazepines. The most popular of the non-benzodiazepines are marketed as Ambien(R) and Sonata(R). Ambien(R) is the current leader with U.S. sales of \$535 million in 1999.

Our drug candidate for the treatment of insomnia, NBI-34060, a nonbenzodiazepine, acts on a specific site on the GABA-A receptor. It is through this mechanism that the currently marketed non-benzodiazepine therapeutics also produce their sleep-promoting effects. However, NBI-34060 is more potent than the currently marketed non-benzodiazepines, including Ambien(R) and Sonata(R), and is more selective for the specific subtype of receptors within the brain believed to be responsible for promoting sleep than the benzodiazepines. We believe that this improved profile and more selective drug targeting will reduce the side effects characteristic of the currently marketed products. We believe that receptor binding studies and preclinical studies on NBI-34060 indicate that it is a highly potent GABA-A receptor activator, or agonist, that acts very specifically on the receptor subtype we are targeting. NBI-34060 also appears to be devoid of next day hangover effects and we expect it to have a considerably reduced amnestic potential. The elderly population, which represents a large portion of the insomnia market, would benefit especially from a novel therapeutic with an improved safety profile, rapidity of onset and decrease in memory impairment.

Researchers designed the first Phase I clinical trial on NBI-34060 to determine the safety and tolerance of NBI-34060 and provide a preliminary evaluation of the sedative potential in 42 normal volunteers as reflected in self-ratings of drowsiness, disruption of memory and impairment of coordination. In this trial, subjects tolerated NBI-34060 well, and reported no serious or unexpected adverse side effects. The subjects consistently reported drowsiness, indicating strong potential for the sedative properties of the compound. Subsequently, in the first quarter of 1999, we completed a second Phase I clinical trial in 30 healthy volunteers to further explore the safety and kinetic profile of NBI-34060. As demonstrated in the first Phase I trial, NBI-34060 demonstrated a very good safety profile.

In 1999, we completed a Phase II placebo-controlled multi-center clinical trial evaluating the efficacy of NBI-34060 in 228 subjects with transient insomnia. Transient insomnia means occasional sleeplessness caused by environmental factors, such as jetlag. The trial was conducted in a sleep laboratory setting employing objective assessments of sleep onset and safety. The results indicated that NBI-34060 is safe and effective in helping subjects with transient insomnia achieve rapid sleep without the next day residual effects associated with most currently marketed sedatives. The results showed that the primary clinical endpoint and the required regulatory endpoint for approval, time to sleep onset, was reached at a statistically significant level. In this trial, those subjects receiving NBI-34060 took a mean time of 16 minutes to progress to sleep onset versus a mean time of 34 minutes in the placebo group. These results were statistically significant at p < 0.001. This means

that applying widely used statistical methods, the chance that these results could have occurred by accident was less than one in 1,000. In addition, the data indicated that a majority of subjects in the treated group fell asleep within 9.5 minutes as indicated by the median time to sleep onset as compared to 23 minutes in the placebo group.

Based on the results from our Phase II trial, we have moved to expand clinical development of NBI-34060. So far this year we have initiated five clinical trials to evaluate various formulations and patient subgroups and we expect to initiate or complete up to nine additional clinical trials involving an additional 300 subjects by year-end. Among other research goals, we intend to determine whether NBI-34060 is effective in treating chronic insomnia, which is sleeplessness not caused by environmental factors. We are developing a formulation of NBI-34060 to treat chronic insomnia. We are also designing a large scale pivotal Phase III program, from which we expect to determine the approvability of the drug candidate. We currently expect to begin this pivotal trial in the second half of 2001.

Another important feature of NBI-34060 is its relatively short half-life, or duration of action of the compound, in the body. The levels of NBI-34060 in the blood stream reach the highest point 30 minutes after the subject takes the tablet. The NBI-34060 is then rapidly removed from the blood stream so it cannot be detected four hours later. This rapid peak of drug results in rapid sleep onset followed by rapid removal of the drug from the body, reducing the risk of next-day effects of the drug. We believe that this short duration of action will allow for bedtime dosing for people who have trouble falling asleep and dosing in the middle of the night for people who have trouble staying asleep without causing the side effects and next day hangover that occurs with the longer acting drugs like Ambien(R) and Sonata(R). We also believe that this short duration of action will allow us to formulate the drug in a modified release form that will effectively provide two doses of drug, a bedtime dose and a middle of the night dose, which will both rapidly induce sleep and maintain sleep through the night. If successful, this would represent the first non-benzodiazepine approved by the FDA for maintaining, rather than simply inducing, sleep.

We face the risk that the side effects and efficacy profile of NBI-34060 seen in our Phase I and II trials may not be confirmed in additional clinical trials or that the results of future trials may not warrant further trials.

Corticotropin-Releasing Factor

According to the Surgeon General's 1999 Report on Mental Health, 6.5% of the U.S. adult population experiences a major depressive episode each year and 16.4% of the U.S. adult population has an anxiety disorder. Existing antidepressant and anti-anxiety therapeutics sold in excess of \$10.6 billion worldwide in 1999, according to market analyst reports from Med Ad News. However, there remain significant unmet medical needs. The leading drug class known as the selective serotonin reuptake inhibitors are not effective in onethird of patients. These drugs frequently require as long as three weeks to take effect, and have significant adverse side effects such as sexual dysfunction. Therefore, a rapid acting anti-depressant with fewer side effects would represent a major advance in the treatment of depression. Corticotropin-releasing factor antagonists may provide such an advance in anti-depressant therapy through a specific mechanism for combating the hormonal abnormalities associated with depression.

Researchers have identified what they believe to be the central mediator of the body's stress responses or stress-induced disorders. This mediator is a brain chemical known as corticotropin-releasing factor. Corticotropin-releasing factor is overproduced in clinically depressed patients and individuals with anxiety disorders. Current research indicates that clinically depressed patients and patients with anxiety experience dysfunction of the hypothalamic-pituitary-adrenal axis, which is the system that manages the body's overall response to stress. When the body detects a threat to physical or psychological well-being, the region of the brain called the hypothalamus amplifies production of corticotropin-releasing factor, which induces the physical effects that are associated with stress and which can lead to depression or anxiety.

The novelty and specificity of the corticotropin-releasing factor mechanism of action and the prospect of improving upon selective serotonin reuptake inhibitor therapy is a topic of interest throughout the psychiatric community and pharmaceutical industry, representing a market opportunity both to better serve patients and expand overall treatment for this life threatening disease.

We have a strategic position in the corticotropin-releasing factor, or CRF, field through our intellectual property portfolio and relationship with experts in the neuropsychiatric field. Wylie Vale, Ph.D., our co-founder and Chief Scientific Advisor, is considered to be a leader in this field of research. We have further characterized the CRF receptor system and have identified additional members of the CRF receptor family. We have received patents on two receptor subtypes called CRF R\\1\\ and CRF R\\2\\, and we have pending patent applications on small molecule organic compounds modulating the CRF receptors.

Depression. Depression is one of a group of neuropsychiatric disorders that is characterized by extreme feelings of elation and despair, loss of body weight, decreased aggressiveness and sexual behavior, and loss of sleep. Researchers believe that depression results from a combination of environmental factors, including stress, as well as an individual's biochemical vulnerability, which is genetically predetermined. Researchers believe that the biochemical basis of depression involves elevated secretion of CRF and abnormally low levels of other neurotransmitters in the brain such as serotonin. The most frequently prescribed antidepressant therapies are selective serotonin reuptake inhibitors such as Prozac(R), Zoloft(R), Paxil(R) and Celexa(R) which act to increase the levels of serotonin and several other chemicals in the brain. However, because these drugs affect a wide range of neurotransmitters, they have been associated with a number of adverse side effects. While newer, more selective drugs offer some safety improvement, side effects remain problematic. In addition, one of the biggest limitations of most existing antidepressant therapies is their slow onset of action.

In our CRF R\\1\\ antagonist program, our corporate collaborator, Janssen Pharmaceutica, selected a CRF R\\1\\ receptor antagonist drug candidate, NBI-30775, for preclinical studies in 1996. Janssen initiated and completed a number of Phase I clinical trials on the compound in late 1998 and initiated a Phase IIa open label trial in 1999. Results from this trial indicated that NBI-30775 was safe and well tolerated and demonstrated anti-depressant activity as measured by a widely-accepted depression scale known as the Hamilton Depression Scores. In this trial, Janssen administered NBI-30775 to 20 patients with major depressive disorders. Results from the trial, as reported in the Journal of Psychiatric Research, showed that treatment response, as defined by more than a 50% reduction in Hamilton Depression Scores, occurred in 50% of the patients in the low dose group and 80% of the patients in the higher dose group. We were strongly encouraged by these results, which we believe support the hypothesized mechanism of action. While this trial found NBI-30775 to be safe, reversible increases in liver enzymes occurred in two volunteers in an expanded safety study. As a result, Janssen announced its decision to discontinue development of NBI-30775. However, because of the positive efficacy results for NBI-30775, Janssen decided to proceed with a back-up compound identified from its research relationship with us. We expect Janssen to select a back-up compound soon, and to begin preclinical studies thereafter.

In addition to our CRF R\1\ program with Janssen, we are conducting an independent CRF R\1\ antagonist program focused on a series of chemical compounds that are proprietary to us. We have selected several lead candidates for this program and we expect to enter Phase I clinical trials in late 2000 and early 2001.

We face the risk that CRF R\\1\\ antagonist compounds may not be effective and safe therapeutics for the treatment of depression or any other conditions. In addition, we or Janssen may decide not to initiate Phase I clinical testing or progress to later clinical trials in a timely manner, if at all.

Anxiety. Anxiety is among the most commonly observed group of central nervous system disorders, which includes phobias or irrational fears, panic attacks, obsessive-compulsive disorders and other fear and tension syndromes. The Surgeon General's 1999 Report on Mental Health estimates that anxiety disorders affect 16.4% of the U.S. adult population. Of the pharmaceutical agents that other companies currently market for the treatment of anxiety disorders, benzodiazepines, such as Valium(R) and Xanax(R), are the most frequently

prescribed. Several side effects, however, limit the utility of these antianxiety drugs. Most problematic among these are drowsiness, the inability to stand up, amnesia, drug dependency and withdrawal reactions following the termination of therapy. Despite these adverse effects, total sales of benzodiazepines were approximately \$800 million in 1999. In view of significant evidence implicating CRF in anxiety-related disorders, we are developing small molecule CRF R\\1\\ receptor antagonists as anti-anxiety agents that block the effects of overproduction of CRF. We believe that these compounds utilize a novel mechanism of action that may offer the advantage of being more selective, thereby providing increased efficacy with reduced side effects as compared to benzodiazepines.

With our corporate collaborator, Janssen, and in our independent CRF R\\1\\ antagonist program, we are developing small molecule therapeutics to block the effects of overproduction of CRF in anxiety. As a co-examined variable in the Janssen open label Phase IIa clinical trial for depression described above, Janssen analyzed the anti-anxiety effects of the CRF R\\1\\ receptor antagonist NBI-30775 using the Hamilton Anxiety Scores. Janssen observed a reduction in Hamilton Anxiety Scores from baseline in both treatment groups at all times after dosing. In addition, in preclinical studies used to evaluate anti-anxiety drugs, our scientists have demonstrated with statistical significance that clinical compound candidates from our independent CRF R\\1\\ antagonist program are effective following oral administration. We did not observe any evidence of clinically relevant side effects. These results are encouraging because they suggest that compounds blocking the CRF R\\1\\ receptor may be effective in treating anxiety-related disorders. Despite these early results, we or Janssen may decide not to initiate clinical testing of CRF R $\1\$ antagonist compounds for anxiety. Even if those trials are conducted, the data may not support continuation of the program and additional clinical trials.

IL-4 Fusion Toxin

Interleukin 4, or IL-4, is a natural chemical which modulates cell growth. Proteins that bind to IL-4, known as IL-4 receptors, are highly concentrated on the cells of malignant brain tumors as well as many other cancers, including some types of kidney and lung cancers. Targeted toxins are a novel form of anticancer therapy under investigation in a variety of clinical settings. Targeted toxin therapeutics carry a bacterial toxin to a target site on the cancer cells and subsequently kill the cancer cell. Many scientists believe that targeted toxins have several potential advantages over conventional chemotherapy in that they are more selective and effective in the treatment of chemotherapy-resistant cancer cells.

In 1998, we exclusively licensed from the National Institutes of Health a targeted toxin compound, IL-4 fusion toxin, which we call NBI-3001. A collaboration between the FDA and the National Cancer Institute designed the IL-4 fusion toxin. It is a combination protein in which IL-4 is attached to Pseudomonas exotoxin, a bacterial toxin that can kill cells. The IL-4 portion of the fusion toxin preferentially binds to human cancer cells because the cancer cells express elevated levels of receptors for IL-4 on their surface, while IL-4 receptor expression is absent or undetectable in normal brain tissue. Once the IL-4 portion of the IL-4 fusion toxin targets the toxin to the cancer cells, the toxin portion of the molecule preferentially kills the cancer cells.

Malignant Glioma. Malignant brain tumors are a significant cause of cancer death. Despite current therapeutic options such as surgery, radiation and chemotherapy, according to the American Cancer Society, the median survival rate for malignant glioma, the most common form of malignant brain cancer, is only in the range of nine to 12 months. These tumors arise within the brain and generally remain confined to the brain. The clinical course of malignant glioma is characterized by relentless loss of vital neurological functions and death within approximately 12 months.

In 1999 we initiated a Phase I/II trial of NBI-3001 in patients with malignant glioma in which the primary endpoints were safety and tumor regression. We completed this trial in June 2000. We enrolled a total of 31 patients with recurrent gliomas which were unresponsive to surgery and radiotherapy in the trial. Our researchers treated patients with intratumoral infusions of NBI-3001 for up to four days. This trial found NBI-3001 to be safe and to have an acceptable degree of tolerability in this patient population. While approximately one-third of the patients exhibited side effects during or immediately following therapy, these

effects were consistent with marked tumor cell death and the subsequent inflammatory response to this tumor cell death. The researchers did not observe any significant peripheral drug-related toxicities. The researchers reported that, of the 27 patients who completed therapy:

- . seven patients, or 26%, experienced complete remissions, defined as no evidence of viable tumor;
- . 10 patients, or 37%, experienced a partial response, defined as greater than 50% reduction in tumor mass; and
- . 10 patients, or 37%, continued to suffer from stable or progressive disease.

In addition, the six-month median survival data showed trends toward efficacy. We plan to initiate an additional confirmatory Phase II trial to further establish dosing regiment, safety and efficacy in the fourth quarter of 2000. We also plan to initiate a Phase III trial in mid-2001.

In October 1999, the FDA granted us fast track designation for NBI-3001. Fast track designation allows us to accelerate our clinical program for NBI-3001 and expedite receipt of regulatory approvals. In April 2000, we were awarded orphan drug designation for NBI-3001 for astrocytic glioma. Under FDA rules, drug developers may obtain orphan drug designation for drugs that treat a disease or condition that affects fewer than 200,000 people in the United States per year. Orphan drug designation provides us with seven years of marketing exclusivity following approval, tax incentives and access to grant funding. We face the risk that we will not successfully complete clinical testing or progress to later clinical trials in a timely manner, or at all.

Additional Cancers. In conjunction with our clinical trials of IL-4 fusion toxin in malignant glioma, we entered into a collaborative research and development agreement with the FDA to investigate the safety and efficacy of IL-4 fusion toxin in laboratory models of different cancers and by different routes of administration. Research teams from the FDA and NIH have published results with IL-4 fusion toxin demonstrating a high level of binding and destruction of specific types of cancers. We are conducting preclinical research to support the application of NBI-3001 to peripheral solid tumors and have shown that IL-4 fusion toxin can be safely administered intravenously in preclinical models. We plan to initiate a Phase I clinical trial in the first quarter of 2001 to first investigate the safety and efficacy of NBI-3001 against kidney and non-small-cell lung cancers. We face the risks that the effectiveness of NBI-3001 seen in our laboratory models, or the safety profile of NBI-3001 seen in our preclinical models, may not be confirmed in clinical trials or that the results of future clinical trials may not warrant further development in any of these settings or that the trial results may not support initiating clinical trials in cancers other than malignant glioma.

Altered Peptide Ligands

The American Autoimmune Related Diseases Association estimates that over 50 million people in the United States suffer from autoimmune diseases such as multiple sclerosis, rheumatoid arthritis, Type I diabetes, systemic lupus erythematosus and thyroiditis. Scientists believe that the body's immune system causes these diseases. The immune system protects an individual from disease agents, such as viruses, by recognizing and destroying those foreign substances using specialized blood cells, called lymphocytes. Occasionally, however, certain lymphocytes arise that inappropriately recognize the body's own tissues as an invader and begin to attack normal healthy tissue, resulting in an autoimmune disease like Type I diabetes. While the mechanism through which the lymphocyte initiates the autoimmune disease is still unknown, the development of drugs that specifically suppress the action of self-reactive lymphocytes or restore the function of regulatory cells may prove advantageous for the prevention, cure or treatment of an autoimmune disease.

One type of lymphocyte involved in the immune response to self or foreign substances is the T cell. T cells detect antigens, which are foreign substances, such as viruses, bacterias or other proteins the T cell recognizes as foreign. T cells recognize these antigens and destroy them. Experiments conducted by our scientists determined that specific amino acid residues within a peptide sequence of an antigen are required for T cell recognition and subsequent cellular activation. Scientists can specifically alter the structure of such a

peptide fragment so that it will not properly activate the T cell. This altered peptide ligand can thus prevent the T cell from destroying its target, or in the case of an autoimmune reaction, prevent the T cell from destroying the healthy tissue.

Multiple Sclerosis. Multiple sclerosis is a chronic autoimmune disease characterized by recurrent attacks of neurologic dysfunction due to damage in the central nervous system. The classic clinical features of multiple sclerosis include impaired vision and weakness or paralysis of one or more limbs. Patients develop a slow, steady deterioration of neurologic function over an average duration of approximately 30 years. According to the National Multiple Sclerosis Society, there are an estimated 350,000 cases of multiple sclerosis in the United States and a similar number of patients in Europe with approximately 17,000 new cases diagnosed worldwide each year. Currently available treatments for multiple sclerosis offer only limited efficacy. Doctors often prescribe steroids to reduce the severity of acute flare-ups and speed recovery. Experimental therapy with other immune-suppressive agents has shown limited success.

Our co-founder, Dr. Lawrence Steinman, identified one of the dominant destructive T cell types in the brains of patients who had died of multiple sclerosis. Dr. Steinman further identified one of the dominant antigens on the normal cell targeted by the autoreactive T cells, a peptide from a brain protein know as myelin basic protein. We designed a novel altered peptide ligand based on myelin basic protein that would target the autoreactive T cells that cause neurological damage in multiple sclerosis. Together with Novartis Pharmaceuticals Corporation, our former collaborative partner for this program, we filed an investigational new drug application with the FDA and received approval in 1996 to commence clinical trials. We subsequently completed Phase I clinical trials, and initiated two Phase II clinical trials of our altered peptide ligand for the treatment of multiple sclerosis, NBI-5788, in 1999.

The first Phase II trial was a multi-center, placebo controlled, randomized parallel group design involving three doses of the altered peptide ligand in 5, 20, and 50 mg weekly doses for four months in 13 centers in North America and Europe. In July 1999 while the Phase II trials were underway, Novartis exercised its right to terminate the collaboration effective January 2000. Subsequently, the Data and Safety Monitoring Board for the trial recommended, and we agreed, that administration of the trial drug be discontinued based on reports of adverse allergic reactions. We continued to evaluate all of the enrolled patients in the study through December 1999 in accordance with the study protocol. We reacquired all rights to the program from Novartis on January 7, 2000 and initiated data analysis. The final data analysis from the multi-center trial showed no increases in either clinical relapses or in new lesions in all patients, even those with allergic reactions. Of the patients completing the double-blind phase of the study, the total volume of enhancing lesions was reduced in the 5 mg dose group compared to the placebo-control patents (p<0.029 Mann Whitney for two treatments). We could not conduct this same secondary analysis in the 20 mg or 50 mg groups, since there were not enough patients with positive scans for us to evaluate their magnetic resonance imaging changes. Moreover, 57% of the patients in the 5 mg group experienced reductions in the volume of new enhancing lesions compared to 25% in the placebo group. Because of these factors, we believe that for this compound, optimal dosing may be at lower levels, and we are currently planning a Phase IIb trial to establish the efficacy profile and optimum dosing regiment for NBI-5788.

The second Phase II trial, which we conducted in collaboration with the National Institutes of Health, involved an open-label, unblinded, non-placebo control trial in eight patients, seven of whom received multiple injections of 50 mg weekly while the final subject received 5 mg. In this trial, published in Nature Medicine, the authors observed a higher incidence of new brain lesions in two patients who received 50 mg doses and the one patient who received 5 mg doses. As a result, the trial was stopped. However, the authors did not provide direct evidence that NBI-5788 triggered the lesions.

Our aim for future trials will be to further establish the benefit of low-dose altered peptide ligand therapy in patients with multiple sclerosis. We face the risks that we may not initiate or complete additional clinical trials or that results of any such studies may not warrant additional clinical development of potential products.

Type I Diabetes. Utilizing our experience in the development of altered peptide ligands for multiple sclerosis, we have extended this approach to Type I or juvenile-onset diabetes, which is a metabolic disease in which the body does not produce enough insulin. Like multiple sclerosis, in Type I diabetes the immune system erroneously targets healthy tissue, in this case the pancreatic cells responsible for the production of insulin. Type I diabetes is one of the most prevalent chronic childhood conditions in North America, afflicting approximately one million patients in 1999. Diabetics often suffer from a number of complications of the disease including heart disease, circulatory problems, kidney failure, neurologic disorders and blindness. Current therapy for Type I diabetes consists of daily insulin injections to regulate blood glucose levels.

We believe that an altered peptide ligand specific for autoimmune T cells involved in diabetes may stop the destruction of the insulin-secreting cells in pre-diabetic patients, thus allowing them to delay or avoid chronic insulin therapy. Working with leading diabetologists at the Barbara Davis Center for Childhood Diabetes at the University of Colorado, our scientists have engineered an altered peptide ligand that affects immune cells targeting the pancreas. In preclinical studies, this altered peptide ligand, NBI-6024, was capable of eliciting a protective immune response and reducing the incidence of diabetes. In addition, experiments using immune cells derived from the blood of Type I diabetes patients indicate that NBI-6024 is recognized by patients' immune cells. This suggests that NBI-6024 may have the potential to intervene in the disease process in humans. We have completed a Phase I safety and dose escalating clinical program in diabetic patients. This trial included 20 Type I diabetic patients. Data from this trial indicates that NBI-6024 is safe and well tolerated. We have initiated an additional Phase I multi-dose trial and we expect to initiate several Phase II trials in 2001 to assess the safety and biological activity of multiple doses of NBI-6024 in adult, adolescent and pediatric patients with Type I diabetes and a Phase II/III trial in the second quarter of 2001.

In January 2000, we entered into an agreement with Taisho Pharmaceutical Co., Ltd. providing Taisho with an exclusive option to obtain European, Asian and North American rights to NBI-6024. In July 2000, Taisho exercised the option as to European and Asian rights, and we granted Taisho exclusive rights to NBI-6024 in those regions. Under the collaboration agreement, we will receive licensing and option fees, payments for certain development and regulatory milestones, significant reimbursement of worldwide development expenses and payments based on sales upon commercialization. We currently retain all rights to NBI-6024 in North America, but in July 2000, Taisho exercised its option to acquire these rights and we are currently negotiating the terms of the acquisition with Taisho.

We face the risk that large-scale studies of our drug in Type I diabetes patients may show different results than our preclinical studies in animals and in cells derived from Type I diabetes patients or our Phase I trials.

Gonadotropin-Releasing Hormone Receptor

Gonadotropin-releasing hormone, or GnRH, is a brain peptide that stimulates the secretion of the pituitary hormones that are responsible for sex steroid production and normal reproductive function. Researchers have found that chronic administration of GnRH agonists reversibly shuts down this transmitter pathway and is clinically useful in treating hormone-dependent diseases such as prostate cancer and endometriosis. Other companies have developed several peptide drugs on this principle, such as Lupron(R) and Zoladex(R), and according to market analyst reports by Euromonitor and Epicom Business Intelligence, these drugs now have an estimated market size in excess of \$2.0 billion annually worldwide. However, since these drugs are peptides, they must be injected rather than taken orally. In addition, these types of agonists take up to several weeks to exert their effect, a factor not seen with direct gonadotropin-releasing hormone antagonists, and until these drugs exert their effects, they have shown a tendency to exacerbate the condition.

We believe that there is a large market potential for an orally delivered gonadotropin-releasing hormone antagonist that does not have the tendency to initially exacerbate the patient's condition. We have screened our small molecule library and conducted structure activity studies to produce small molecule orally-active gonadotropin-releasing hormone antagonists. We have identified several series of small molecule compounds and are conducting additional studies to select a final clinical candidate. We hope to select a lead clinical

candidate by year end and expect to initiate Phase I clinical trials in the second half of 2001. We hope that the results of these Phase I studies will be predictive of efficacy in all potential indications. We face the risk that our work in this area may not lead to clinical candidates or that, even if we select a candidate, clinical trials may show it is not safe and effective.

We plan to focus our clinical efforts on prostate cancer and in the area of women's health, including endometriosis, uterine fibroids and infertility. According to a 1993 article in Contemporary OB/GYN, researchers believe that more than five million women in the U.S. alone are affected by chronic endometriosis, representing approximately 10% prevalence in reproductive age women. Of those afflicted, more than 200,000 patients are treated in a hospital setting, and an additional 250,000 are treated in an outpatient setting, according to a 1998 National Patient Profile audit. We believe that the availability of an oral treatment lacking the side effect profile of the currently available peptide agonists may be an alternative to surgery and encourage a higher treatment rate. We also hope our drug will be effective against prostate cancer, which has over 180,000 new cases per year in the U.S., according to the American Cancer Society.

Research

Excitatory Amino Acid Transporters

Some of the most successful central nervous system drugs, including selective serotonin reuptake inhibitors such as Prozac(R), selectively target brain amino acid transporters. Similarly, we are targeting a set of proteins generally located in the brain which transport brain chemicals in and out of cells, called excitatory amino acid transporters, to selectively control the levels of a brain chemical called glutamate in order to produce a therapeutic benefit in disorders where glutamate levels are abnormal such as head trauma, schizophrenia, Lou Gehrig's Disease and other neurodegenerative and psychiatric disorders.

We are collaborating with Wyeth-Ayerst Laboratories, a division of American Home Products Corporation, to control glutamate transporter function as a novel strategy for the treatment of neurodegenerative and psychiatric disorders. Our collaboration includes basic research to understand the function and regulation of the transporters, along with the identification and characterization of chemical and biological leads. We face the risks that we may be unable to demonstrate that these excitatory amino acid transporters are therapeutic targets or that we may fail to identify any product candidates for preclinical or subsequent clinical development.

In 2000 we expanded our excitatory amino acid transporter research and initiated a research program focused on retinal cell death associated with damage from low blood flow. The National Institutes of Health awarded us a research grant to fund our work to identify novel compounds for the alleviation of neuronal cell death in response to a wide range of conditions including diabetic induced nerve damage, glaucoma and other circulatory conditions of the eye. This work is independent of our collaboration with Wyeth-Ayerst.

CRF R\\1\\ Peripheral Uses

Recent reports have suggested that corticotropin-releasing factor, or CRF, plays a role in the control or modulation of the gastrointestinal system. Studies have demonstrated that central administration of CRF acts in the brain to inhibit emptying of the stomach while stimulating bowel activity, and suggest that overproduction of CRF in the brain may be a main contributor to stress-related gastrointestinal disorders.

Irritable bowel syndrome is a gastrointestinal inflammatory disease that affects up to 15% of American adults, mostly women, according to the International Foundation for Gastrointestinal Disorders. Irritable bowel syndrome can be a lifelong, intermittent disease, involving chronic or recurrent abdominal pain and frequent diarrhea or constipation, or both. Some patients with irritable bowel syndrome report the onset of symptoms of the disease following a major life stress event, such as death in the family, which suggests that the causes of irritable bowel syndrome may be related to stress. In addition, most irritable bowel syndrome sufferers also experience anxiety and depression. Since researchers believe that CRF is the primary mediator of stress, they have suggested that CRF R\\1\\ antagonists may provide a treatment for irritable bowel syndrome. We

are evaluating our proprietary CRF R\\1\\ antagonists for treatment of irritable bowel syndrome. We face the risks that preclinical studies may not warrant initiating clinical testing of these candidates or that any initial clinical data may not support continuation of the program and additional clinical trials.

CRF R\\2\\ Antagonists

Our scientists were the first to isolate a second CRF receptor, called CRF R\2\\. We believe the distribution of CRF R\2\\ in the brain suggests that CRF R\2\\ could play a role in some forms of anxiety and some eating disorders. Our researchers have demonstrated that administration of a CRF R\2\\ antagonist reduces measures of anxiety in studies of obsessive compulsive disorder and conditioned fear. We are also evaluating our proprietary CRF R\2\\ antagonist for treatment of a variety of eating disorders. We have screened our small molecule library and conducted exploratory chemistry to identify a new series of compounds to undergo further study. We face the risks that our work in this area will not lead to clinical candidates or that clinical trials will not find our candidates to be safe and effective.

CRF R\\2\\ Agonists/Urocortin Agonist

CRF R\\2\\ agonists may represent a therapeutic strategy to elevate CRF and a related neuropeptide called urocortin. Preliminary data indicate that CRF and urocortin may act as central regulators of both appetite and metabolism. We have evaluated CRF R\\2\\ agonists in various models of obesity and have observed reduced food intake and weight loss. In 1996, in collaboration with Eli Lilly, we initiated a three-year research collaboration to screen and optimize CRF R\\2\\ agonists. In October 1999, the funded research portion of the program was completed as scheduled and Eli Lilly has retained control of the program and exclusive rights to the compounds. We face the risks that Eli Lilly may not initiate further research and that, if they do, the research may not identify suitable candidate compounds for development in a timely manner, or at all.

Melanocortin Receptor Agonists/Antagonists

Melanocortin receptors are proteins on the surface of cells which help regulate some body functions such as eating and skin color. To date, researchers have identified a family of five melanocortin receptor subtypes. Recently, researchers discovered that one of the melanocortin receptor subtypes, subtype 4, plays an important role in the mechanism regulating appetite, body weight and insulin secretion. The subtype 4 receptor is activated by melanocyte stimulating hormone. When melanocyte stimulating hormone is injected, it reduces food intake and body weight. Responses have included the apparent increase in basal metabolic rate and lowering of serum insulin levels. We believe that an orally active subtype 4 agonist may produce the same effects and, thus, may provide a novel approach to the treatment of obesity or diabetes. We hope to identify an orally active subtype 4 agonist compound. However, we may fail to do so and we face the risk that our melanocortin research will not lead to product candidates.

Melanin Concentrating Hormone Antagonists

Recent studies suggest that melanin concentrating hormone plays a role in regulating eating behavior. Based on these findings, we believe that blocking the effect of melanin concentrating hormone with a small molecule antagonist may represent a novel approach to the treatment of obesity. Thus, we have identified the melanin concentrating hormone receptor as a compelling drug target that may be complementary to other obesity/anorexia drug targets in our drug discovery pipeline. We face the risk that our research in this area will not lead to product candidates.

Hypocretin

Hypocretins are peptides that researchers have linked to a variety of activities, including the control of eating, cardiovascular regulation and water intake. Recent publications have also reported that hypocretins appear to have a critical role as regulators of sleep. Some studies point to a lack of hypocretin as being

instrumental in the development of narcolepsy and suggest that a small molecule agonist may be able to offset the lack of hypocretin and provide therapy for narcolepsy. It is possible that the hypocretin system also contributes to the regulation of other sleeping disorders such as insomnia, particularly since administration of excess hypocretin into animals promotes wakefulness. We have screened our small molecule library to identify agonists and antagonists for the hypocretin receptors and are in the process of optimizing the compounds that resulted from these screens. We will be using these compounds to further characterize the hypocretin system. We face the risk that our research in this area will not lead to product candidates.

Our Discovery Technology

We utilize a proprietary approach to small molecule drug design that we refer to as multi-channel technology.

Our Multi-Channel Technology. Our multi-channel technology approach integrates an array of medicinal chemistry, computational and combinatorial tools to facilitate the drug discovery process. At the start of a new project, when we know relatively little about the selected molecular target, we analyze screening data using two-dimensional descriptors of molecular properties. Through a proprietary method, our chemists can search large virtual libraries of novel, readily synthesizable compounds and select for parallel synthesis only those which match the collective properties of the screening hits. Later in the project, once more robust data becomes available, we combine our proprietary filter with more intensive three-dimensional searches. We use these tools, together with the cumulative knowledge and experience of our medicinal chemists and detailed pharmacodynamic and pharmacokinetic measurements, to select compounds that are most likely to proceed through the drug development process.

In connection with our multi-channel technology, we utilize other advanced technologies to enhance our drug discovery capabilities and to accelerate the drug development process. These technologies include:

High-Throughput Screening. We have assembled a chemical library of diverse, low molecular weight organic molecules for lead compound identification and we have implemented robotics screening capabilities linked to our library of compounds that facilitate the rapid identification of new drug candidates for multiple drug targets. In addition, we have designed a 10,000-compound library focused on some of our molecular targets. We believe that our utilization of high-throughput screening and medicinal and peptide chemistry will enable us to rapidly identify and optimize lead molecules.

Molecular Biology. Our scientists utilize novel techniques to examine gene expression in a variety of cellular systems. We have developed a sophisticated technique to evaluate the type and quantity of genes in various cellular systems prior to the isolation of genes. We have also developed unique expression vectors and cell lines that allow for the highly efficient protein expression of specific genes.

Our drug discovery program creates a significant amount of genetic sequence information. We have developed a bioinformatics system, which we believe will allow us to identify novel genes involved in neurodegeneration. We collect data with automated instruments and we store and analyze the data using customized computational tools.

Gene Sequencing. We apply integrated automated DNA sequencing and gene identification technology in our drug discovery program, enabling us to perform extended gene analysis in a rapid, high-throughput format with independent linkage into a sequence identification database. We have optimized gene sequencing instrumentation for differential display, a technique that may facilitate the rapid identification of novel genes.

One of our business strategies is to utilize strategic alliances to enhance our development and commercialization capabilities. To date, we have formed the following alliances:

Janssen Pharmaceutica, N.V. In January 1995, we entered into the first of two research and development agreements with Janssen Pharmaceutica, N.V., an indirect wholly-owned subsidiary of Johnson & Johnson, to collaborate in the discovery, development and commercialization of small molecule CRF R\\1\\ antagonists for the treatment of anxiety, depression and substance abuse. These collaborations utilize our expertise in cloning and characterizing CRF R\\1\\ subtypes, CRF pharmacology and medicinal chemistry. Under the January 1995 agreement, Janssen funded three years of research at Neurocrine and received exclusive licenses to all CRF R\\1\\ antagonist compounds developed during the term of the funded research or during the year thereafter. The term of the licenses are for the term of the patents licensed under the agreement. Pursuant to this agreement, we have received \$2.0 million in license payments and will receive royalties on product sales for the term of the patents covering the compounds subject to reduction for payments to third parties. We will also receive royalties for products not covered by issued patents and agreed minimum annual royalties. In addition, we have the option of co-promoting the first marketed product from the collaboration in North America for five years. The 1995 agreement will terminate upon the expiration of the patents covering the collaboration products but may also be terminated for failure by either party to meet its obligations, bankruptcy or in some circumstances upon assignment of the agreement by either us or Janssen. In 1996 Janssen selected a clinical candidate from the compounds discovered in connection with the first Janssen agreement and commenced clinical trials in Europe. The collaborative research portion of the first Janssen agreement was completed as scheduled in 1997. In September 1999, together with Janssen, we entered into an amended agreement to expand the collaborative research and development efforts to identify additional small molecule CRF antagonists for the treatment of psychiatric disorders. In connection with the amended Janssen agreement, we received an initial payment and will receive two years of additional research funding for our scientists working in collaboration with Janssen. All collaboration products identified under the 1999 agreement are subject to the same terms and conditions as the products arising under the 1995 agreement.

Under the Janssen agreements, we are entitled to receive up to \$39.2 million for sponsored research, milestones and license fees, plus additional amounts for potential royalties and reimbursement of outside costs. The amount we are entitled to receive includes \$14.7 million for sponsored research and \$2.0 million in license fees, plus up to \$13.5 million in milestone payments for the indications of anxiety, depression and substance abuse, in each case upon achievement of development and regulatory goals. As of September 30, 2000, we have received a total of \$19.8 million, including \$13.6 million in sponsored research, \$3.5 million in milestones, \$2.0 million in license fees and \$684,000 for reimbursement of outside costs. Janssen is responsible for funding all clinical development and marketing activities, including reimbursement to us for our promotional efforts, if any. In connection with the 1995 agreement, Johnson & Johnson Development Corporation purchased \$5.0 million of our common stock.

Taisho Pharmaceutical Co., Ltd. In December 1999, we entered into an agreement with Taisho Pharmaceutical Co., Ltd. providing to Taisho an exclusive option to obtain European, Asian and North American development and commercialization rights for our altered peptide ligand product, NBI-6024, for Type I Diabetes. In June 2000, Taisho exercised its option as to Europe and Asia, and we and Taisho formed a steering committee to oversee the worldwide development of NBI-6024. We will receive option fees, license fees, milestone payments and reimbursement of 50% of worldwide development expenses. In addition, we will receive payments on product sales in Europe and Japan for the term of the patents covering NBI-6024 subject to adjustment for payments to third parties. We have retained all rights to NBI-6024 in North America, but Taisho has exercised its option to acquire these rights and we are currently negotiating the terms of the acquisition with Taisho. We received \$2 million for the option, and another \$3 million for the European and Asian commercialization rights when Taisho initially exercised the option. We are also entitled to receive up to \$21.0 million for milestones, plus additional amounts for reimbursement of development costs and potential sublicense fees. As of September 30, 2000, we have received a total of \$388,000 in reimbursement of development costs.

Wyeth-Ayerst Laboratories. Effective January 1999, we entered into a Collaboration and License Agreement with Wyeth-Ayerst Laboratories, a division of American Home Products Corporation, relating to the research, development and commercialization of compounds that control excitatory amino acid transporters for the treatment of neurodegenerative and psychiatric diseases. Pursuant to the agreement, we are entitled to receive up to \$80.2 million for sponsored research and milestones, plus additional amounts for potential royalties. The amount we are entitled to receive consists of \$11.0 million for sponsored research over a three- year period, plus up to \$69.2 million in milestone payments upon achievement of certain research, development and regulatory events. We have granted Wyeth-Ayerst exclusive and non-exclusive rights to our excitatory amino acid transporters technology as well as exclusive rights to any products development during the collaboration. These licenses are for the term of the patents licensed. We will receive royalties on product sales for the terms of the patents covering the collaboration products, subject to adjustments for royalties payable to other parties and for competition. We will also receive royalties for products that are not the subject of issued patents. We also have the option to co-promote collaboration products in Canada and the United States under some conditions. Wyeth-Ayerst may terminate the agreement if they decide that the research is not successful, if they decide to stop the program or if we are acquired by another company. The agreement may also be terminated by either party for the other party's failure to meet its obligations under the agreement or bankruptcy. As of September 30, 2000, we have received a total of \$8.3 million from Wyeth-Ayerst under the agreement, consisting of \$5.3 million in sponsored research and \$3.0 million in milestone payments.

Eli Lilly and Company. In October 1996, we entered into a research and license agreement with Eli Lilly and Company to collaborate in the discovery, development and commercialization of CRF binding protein ligand inhibitors for the treatment of central nervous system disorders including obesity and dementias, such as Alzheimer's disease and CRF R\\2\\ agonists for central nervous system diseases and disorders. Under the agreement, we were entitled to receive three years of funded research payments. In October 1999, the funded portion of the research program concluded as scheduled and, to our knowledge, Eli Lilly is not planning any specific future development efforts. Through October 1999, we received a total of \$17.2 million in research and development payments under the agreement. We have granted Lilly an exclusive worldwide license to manufacture and market CRF binding protein ligand antagonists and CRF R\\2\\ agonist products. The licenses granted under the agreement are for the term of the patents licensed and we are entitled to receive a royalty on product sales for the term of those patents. We have the option to elect to copromote products for the treatment of dementia in the United States, and receive a portion of the profits resulting from sales subject to our obligation to pay a portion of the development costs for such product rather than royalties. The agreement may be terminated for failure by either party to meet its obligations or if blocking patents prevent the development of products.

Risks Related to Our Strategic Alliances. We face the risks that we or any of the above collaborators may not be successful in research and drug discovery, that any preclinical and clinical drug candidates arising from the collaborations may not generate commercial product candidates that have viable clinical, regulatory and intellectual property profiles or that any commercial products arising from any of these collaborations may not enjoy market acceptance. Therefore, we may never receive any milestone payments or royalty income under any of our collaboration agreements.

Intellectual Property

We seek to protect our lead compounds, compound libraries, expressed proteins, synthetic organic processes, formulations, assays, cloned targets, screening technology and other technologies by filing, or by causing to be filed on our behalf, patent applications in the United States and abroad. We have five issued U.S. patents, approximately 60 pending U.S. patent applications and another approximately 105 issued and pending foreign patents and applications. We have licensed, from institutions such as The Salk Institute, Stanford University, Oregon Health Sciences University, DOV Pharmaceuticals and others, the rights to an additional 30 issued U.S. patents, 20 pending U.S. patent applications, and 50 issued and pending foreign filings. Two of our European patents are subject to opposition proceedings. These proceedings relate to the CRF R\\2\\ patent and our

broad patent covering immune therapeutics in diabetes. If successful, these opposition proceedings could reduce the breadth of some of our proprietary rights, but we believe they would not materially impede our commercialization strategy. We face the risk that one or more of the above patent applications may be denied. We also face the risk that our issued patents may be challenged or circumvented or may otherwise not provide protection for any commercially viable products we develop.

The technologies we use in our research, as well as the drug targets we select, may unintentionally infringe the patents or violate the proprietary rights of third parties. If this occurs, we may be required to obtain licenses to patents or proprietary rights of others in order to continue with the commercialization of our products. We are aware of pending and issued patent claims to melanin concentrating hormone ligand and receptor, the hypocretin ligand and receptor and certain uses of melanocortin subtype 4 agonists. We are conducting research in all of those areas and may ultimately need to license those patents in order to proceed. In addition, we are aware of two U.S. patents relating to IL-4 proteins that are controlled by other entities which, if construed very broadly, and if valid as so construed, could prevent us from commercializing our IL-4 fusion toxin products in the United States unless we obtain a license, which may not be available to us on commercially reasonable terms, or at all. We do not believe that our research and development activities as currently conducted infringe any valid issued patents.

NBI-34060, our leading gamma amino-butyric acid agonist compound for the treatment of insomnia, is covered generically in an issued U.S. patent, which we licensed from DOV Pharmaceuticals. It is not currently covered by any foreign patents of which we are aware. The term of the U.S. patent is due to expire in June 2003. We intend to seek additional protection of this compound in three ways. First, patent term extension under the Hatch/Waxman Patent Term Extension Act may add patent life in the U.S. beyond the June 2003 expiration, depending on the length of clinical trials and other factors involved in the filing of a new drug application. Second, we have filed seven U.S. and foreign patent applications on NBI-34060, its synthesis and formulations, which could extend patent protection to the year 2020. We face the risk that these patents may not issue, or may subsequently be challenged successfully. Third, in addition to this potential patent protection, the United States, the European Union and Japan all provide data protection for new medicinal compounds. If this protection is available, no competitor may use the original applicant's data as the basis of a generic marketing application during the period of data protection. This period of exclusivity is five years in the United States, six years in Japan and six to 10 years in the European Union, measured from the date of FDA, or corresponding foreign, approval.

In-Licensed Technology

We have in-licensed the following technologies to complement our ongoing clinical and research programs. Most of these licenses extend for the term of the related patent and contain customary royalty, termination and other provisions.

- . In August 1999, we licensed nonexclusive rights to the human gonadotropin-releasing hormone receptor from Mount Sinai School of Medicine.
- . In January 1999, we licensed exclusive worldwide rights to patents relating to excitatory amino acid transporters and melanocortin 1-5 from Oregon Health Sciences University.
- . In December 1998, we licensed nonexclusive rights to technology covering melanocortin subtype 4 from the University of Michigan.
- . In June 1998, we licensed exclusive worldwide rights to our sedative compound, NBI-34060, from DOV Pharmaceuticals, Inc.
- . In May 1998, we licensed exclusive worldwide rights to patents covering NBI-3001, our IL-4 fusion toxin, from the National Institutes of Health and inventors Ira Pastan and David Fitzgerald.
- . In November 1996, we licensed exclusive worldwide rights to technology directed to peptide therapeutics for the treatment of autoimmune disease from Trustees of Dartmouth College.

- . In October 1997, we licensed co-exclusive rights to technology relating to the prevention of diabetes from University Technology Corporation.
- . In November 1994, we licensed exclusive worldwide rights to technology relating to treatment of multiple sclerosis using peptide analogs of myelin basic protein from Stanford University.
- . In November 1993, we licensed exclusive worldwide rights to CRF R\\1\\ from the Salk Institute for Biological Studies.

Manufacturing

We currently rely, and will continue to rely for at least the next few years, on contract manufacturers to produce sufficient quantities of our product candidates for use in our preclinical and anticipated clinical trials. Manufacturers of our NBI-34060 clinical trial material include Organichem Corporation and Pharmaceutics International Inc. Polypeptide Laboratories and Prima Pharm Inc. manufacture our altered peptide ligands NB1-6024 and NB1-5788. Cedarburg Pharmaceuticals and Albany Molecular Research manufacture our CRF antagonist compounds. We also rely, and intend to continue to rely, on third parties to provide the components of these product candidates, such as proteins, peptides, phospholipids, small molecules and bulk chemical materials.

There is currently a limited supply of some of these components. Furthermore, the contract manufacturers that we have identified to date only have limited experience at manufacturing, formulating, analyzing and packaging our product candidates in quantities sufficient for conducting clinical trials or for commercialization.

If we are unable to establish and maintain relationships with third parties for manufacturing sufficient quantities of our product candidates and their components that meet our planned time and cost parameters, it could delay the development and timing of our clinical trials.

Marketing and Sales

We currently have no sales, marketing or distribution capabilities. In order to commercialize any of our product candidates, we must either internally develop sales, marketing and distribution capabilities or make arrangements with third parties to perform these services. We intend to sell, market and distribute some products directly and intend to rely on relationships with third parties to sell, market and distribute other products. Under our collaboration agreements with Janssen, Wyeth-Ayerst and Eli Lilly, we may have the opportunity to co-promote our products in the United States. To market any of our products directly, we must develop a marketing and sales force with technical expertise and with supporting distribution capabilities, none of which we currently have.

Government Regulation

Regulation by government authorities in the United States and foreign countries is a significant factor in the development, manufacture and marketing of our proposed products and in our ongoing research and product development activities. All of our products will require regulatory approval by government agencies prior to commercialization. In particular, human therapeutic products are subject to rigorous preclinical studies and clinical trials and other approval procedures of the FDA and similar regulatory authorities in foreign countries. Various federal and state statutes and regulations also govern or influence testing, manufacturing, safety, labeling, storage and record-keeping related to such products and their marketing. The process of obtaining these approvals and the subsequent substantial compliance with appropriate federal and state statutes and regulations require the expenditure of substantial time and financial resources.

Preclinical studies are generally conducted in laboratory animals to evaluate the potential safety and the efficacy of a product. Drug developers submit the results of preclinical studies to the FDA as a part of an investigative new drug application which must be approved before we can begin clinical trials in humans. Typically, clinical evaluation involves a time consuming and costly three-phase process.

- Phase I.... Clinical trials are conducted with a small number of subjects to determine the early safety profile, maximum tolerated dose and pharmacokinetics of the product in human volunteers.
- Phase II.... Clinical trials are conducted with groups of patients afflicted with a specific disease in order to determine preliminary efficacy, optimal dosages and expanded evidence of safety.
- Phase III... Large-scale, multi-center, comparative trials are conducted with patients afflicted with a target disease in order to provide enough data to demonstrate with substantial evidence the efficacy and safety required by the FDA.

The FDA closely monitors the progress of each of the three phases of clinical trials that are conducted in the United States and may, at its discretion, reevaluate, alter, suspend or terminate the testing based upon the data accumulated to that point and the FDA's assessment of the risk/benefit ratio to the patient. To date we have conducted many of our clinical trials in Europe and South Africa.

Once Phase III trials are completed, drug developers submit the results of preclinical studies and clinical trials to the FDA in the form of a new drug application, or a biologics licensing application for approval to commence commercial sales. In response, the FDA may grant marketing approval, request additional information or deny the application if the FDA determines that the application does not meet regulatory approval criteria. FDA approvals may not be granted on a timely basis, or at all. Furthermore, the FDA may prevent a drug developer from marketing a product under a label for its desired indications, which may impair commercialization of the product. Similar regulatory procedures must also be complied with in countries outside the United States.

If the FDA approves the new drug application, the drug becomes available for physicians to prescribe in the United States. After approval, the drug developer must submit periodic reports to the FDA, including descriptions of any adverse reactions reported. The FDA may request additional studies, known as Phase IV, to evaluate long-term effects.

In addition to studies requested by the FDA after approval, a drug developer may conduct other trials and studies to explore use of the approved compound for treatment of new indications. The purpose of these trials and studies and related publications is to broaden the application and use of the drug and its acceptance in the medical community.

Orphan Drug Designation

The FDA may grant orphan drug designation to drugs intended to treat a "rare disease or condition," which is generally a disease or condition that affects fewer than 200,000 individuals in the United States. Orphan drug designation must be requested before submitting a new drug application. After the FDA grants orphan drug designation, the generic identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA. Orphan drug designation does not convey any advantage in, or shorten the duration of, the regulatory review and approval process. If a product that has orphan drug designation subsequently receives FDA approval for the indication for which it has orphan drug designation, the product is entitled to orphan exclusivity, which means the FDA may not approve any other applications to market the same drug for the same indication, except in very limited circumstances, for seven years. Our IL-4 fusion toxin product candidate has received orphan drug designation from the FDA for astrocytic glioma.

Approvals Outside the United States

We will have to complete an approval process similar to that in the United States in virtually every foreign target market for our products in order to commercialize our product candidates in those countries. The approval procedure and the time required for approval vary from country to country and may involve additional testing. Foreign approvals may not be granted on a timely basis, or at all. In addition, regulatory approval of prices is required in most countries other than the United States. We face the risk that the resulting prices would be insufficient to generate an acceptable return to us or our corporate collaborators.

Fast Track Designation

Congress enacted the Food and Drug Administration Modernization Act of 1997, in part, to ensure the timely availability of safe and effective drugs, biologics and medical devices by expediting the FDA review process for new products. The Food and Drug Administration Modernization Act establishes a statutory program for the approval of so-called fast track products. The new law defines a fast track product as a new drug or biologic intended for the treatment of a serious or life-threatening condition that demonstrates the potential to address unmet medical needs for such a condition. Under the new fast track program, the sponsor of a new drug or biologic may request the FDA to designate the drug or biologic as a fast track product at any time during clinical development of the product. Fast-track designation provides an expedited review of a product, which accelerates FDA review.

We may seek fast track designation to secure expedited review of appropriate product candidates. We can never be sure that we will obtain fast track designation. We cannot predict the ultimate impact, if any, of the new fast track process on the timing or likelihood of FDA approval of any of our potential products. We received fast track designation for our IL-4 fusion toxin.

Competition

The biotechnology and pharmaceutical industries are subject to rapid and intense technological change. We face, and will continue to face, competition in the development and marketing of our product candidates from biotechnology and pharmaceutical companies, research institutions, government agencies and academic institutions. Competition may also arise from, among other things:

- . other drug development technologies;
- . methods of preventing or reducing the incidence of disease, including vaccines; and
- . new small molecule or other classes of therapeutic agents.

Developments by others may render our product candidates or technologies obsolete or noncompetitive.

We are performing research on or developing products for the treatment of several disorders including anxiety, depression, insomnia, malignant glioma, other forms of cancer and multiple sclerosis.

In the area of anxiety disorders, our product candidates will compete with well-established products such as Valium(R), marketed by Hoffman-La Roche, Xanax(R), marketed by Pharmacia Upjohn, Buspar(R), marketed by Bristol-Myers-Squibb, and others.

We are also developing products for depression, which will compete with well-established products in the antidepressant class, including Prozac(R), marketed by Eli Lilly, Zoloft(R) marketed by Pfizer, and Paxil(R), marketed by Smith Kline Beecham. Certain technologies under development by other pharmaceutical companies could result in additional commercial treatments for depression and anxiety. In addition, a number of companies are also conducting research on molecules to block CRF, which is the same mechanism of action employed by our compounds.

We are also developing a gamma amino-butyric acid receptor agonist, NBI-34060, for the treatment of insomnia. Ambien(R) and Sonata(R) are already marketed for the treatment of insomnia by Searle/Synthelabo and American Home Products, respectively.

Guilford Pharmaceuticals' Gliadel(R), approved for use in a subset of brain cancers known as malignant glioma, would potentially compete with our IL-4 fusion toxin product, NBI-3001, if our product is approved by the FDA. Temozolomide, marketed by Schering Plough, is approved in Europe only for recurrent malignant glioma, where it may also compete with our IL-4 fusion toxin product.

We are also pursuing development of NBI-3001 for the treatment of peripheral solid tumors, such as kidney cancer and non-small-cell lung cancer. Proleukin(R) is marketed by Chiron for the treatment of kidney cancer, and drug treatments for non-small-cell lung cancer include Platinol(R) and Taxol(R), which are marketed by Bristol-Myers Squibb, and Gemzar(R), which is marketed by Eli Lilly.

Products that may compete with NBI-5788, our altered peptide ligand for multiple sclerosis, include Betaseron(R) and Avonex(R), similar forms of beta-interferon marketed by Berlex BioSciences and Biogen, respectively. Copaxone(R), a peptide polymer marketed by Teva, has also been approved for the marketing in the United States and certain other countries for the treatment of multiple sclerosis.

There are a number of competitors to products in our research pipeline. Lupron Depot(R), marketed by Takeda-Abbott Pharmaceuticals, Zoladex(R), marketed by and AstraZeneca, and Synarel(R), marketed by Pharmacia Upjohn, are gonadotropin-releasing hormone peptide agonists that have been approved for the treatment of prostate cancer, endometriosis, infertility, breast cancer and central precocious puberty. In addition, peptide antagonists, including Abarelix(R) and Antagon Injection(R), are under development by Amgen and Organon, respectively, for these indications. These drugs may compete with any small molecule gonadotropin-releasing hormone antagonists we develop for these indications. Anti-obesity therapeutics currently available include Xenical(R) from Roche Laboratories and Meridia(R) from Knoll Pharmaceuticals. If one or more of these products or programs are successful, it may reduce or eliminate the market for our products.

Compared to us, many of our competitors and potential competitors have substantially greater:

- . capital resources;
- . research and development resources, including personnel and technology;
- . regulatory experience;
- . preclinical study and clinical testing experience;
- . manufacturing and marketing experience; and
- . production facilities.

Any of these competitive factors could harm our business, prospects, financial condition and results of operations, which could negatively impact our stock price.

Employees

As of October 31, 2000 we had 179 employees, consisting of 169 full-time and 10 part-time employees. Of the full-time employees, approximately 60 hold Ph.D., M.D. or equivalent degrees. None of our employees are represented by a collective bargaining arrangement, and we believe our relationship with our employees is good. We are highly dependent on the principal members of our management and scientific staff. If we were to lose the services of any of these personnel, we might not be able to achieve our development objectives. Furthermore, recruiting and retaining qualified scientific personnel to perform research and development work in the future will also be critical to our success. We face the risk that we may not be able to attract and retain personnel on acceptable terms given the competition among biotechnology, pharmaceutical and health care

companies, universities and non-profit research institutions for experienced scientists. In addition, we rely on members of our Scientific Advisory Board and a significant number of consultants to assist us in formulating our research and development strategy.

Properties

We lease approximately 93,000 square feet of space at our headquarters in San Diego, California, of which approximately 65% is laboratory space dedicated to research and development. This facility was constructed in 1998 and is under lease through August 2013. Our lease payments are \$208,000 per month with annual increases of 4% on September 1st of each year. We have sublet approximately 14,500 square feet of this building to two separate tenants through February 1, 2001 and September 30, 2001, respectively.

We believe that our property and equipment are generally well maintained, in good operating condition and adequate for our current needs.

Legal Proceedings

We are currently not subject to any material legal proceedings.

Our Scientific Advisory Board

We have assembled a Scientific Advisory Board that currently consists of 12 individuals. Members of our Scientific Advisory Board are leaders in the fields of neurobiology, immunology, endocrinology, psychiatry and medicinal chemistry. Our Scientific Advisory Board members meet at least yearly to advise us in the selection, implementation and prioritization of our research programs. Some members meet more frequently to advise us with regard to our specific programs.

Our Scientific Advisory Board presently consists of the following individuals:

Susan G. Amara, Ph.D., a Senior Scientist and Professor at the Vollum Institute for Advanced Biomedical Research, is an expert on the cellular and molecular biology of neurotransmitter transporters, excitatory amino acid transporter structure and regulation and signaling roles of neurotransmitter transporters.

Floyd E. Bloom, M.D., is Chairman of the Department of Neuropharmacology at The Scripps Research Institute. Dr. Bloom is an internationally recognized expert in the fields of neuropharmacology and neurobiology.

Michael Brownstein, M.D., Ph.D., is Chief of the Laboratory of Cell Biology at the National Institute of Mental Health. He is a recognized expert in molecular pharmacology as it applies to the field of neuroendocrinology, where he has defined many of the pharmaceutically important neurotransmitter receptors and transporter systems.

Roger D. Cone, Ph.D., a senior scientist at the Vollum Institute for Advanced Biomedical Research, is an international expert on the neuroendocrine system, with particular expertise on the melanocortin system and the hypothalamic control of energy homeostasis. Dr. Cone is an editor of the journal Endocrinology.

Stephen M. Hedrick, Ph.D., is Professor and Chairman of Cell Biology at the University of California, San Diego. Dr. Hedrick is an expert in T cell immunology and co-discovered the first T cell receptor genes and identified the regions responsible for antigen binding. He is an editor for the Journal of Immunology.

Florian Holsboer, M.D., Ph.D., is Director at the Max Planck Institute fur Psychiatrie. Dr. Holsboer is an international expert on the role of glucocorticoids and neuropeptides, particularly CRF, in neuropsychiatric disorders. He coordinates the efforts of several hundred scientists and clinicians at the Max Planck Institute, a major European neuropsychiatric institute.

George F. Koob, Ph.D., is a Member of the Department of Neuropharmacology at The Scripps Research Institute and an Adjunct Professor in the Departments of Psychology and Psychiatry at the University of California, San Diego. Dr. Koob is an internationally recognized behavioral pharmacology expert on the role of peptides in the central nervous system, the neurochemical basis of addiction and in the development of preclinical behavioral procedures for the screening of anxiolytic and antidepressant drugs and memory enhancers.

Charles B. Nemeroff, M.D., Ph.D., is Chairman and Professor of the Department of Psychiatry and Behavioral Sciences at Emory University School of Medicine. Dr. Nemeroff is an internationally recognized expert on the effects of neuropeptides on behavior and their relevance in clinically important conditions such as depression, anxiety and schizophrenia, and has published over 400 articles on this subject.

Thomas Roth, Ph.D., is the Head of the Division of Sleep Disorder Research at the Henry Ford Hospital Research Institute. Dr. Roth is an internationally recognized expert in the field of sleep research. His areas of specialization are sleep homeostasis and neuropharmacology of sleep.

Lawrence J. Steinman, M.D., is our Chief Scientific Advisor, Neuroimmunology and a member of our Founding Board of Scientific and Medical Advisors and our Executive Committee.

Wylie W. Vale, Ph.D., is our Chief Scientific Advisor, Neuroendocrinology and a member of our Founding Board of Scientific and Medical Advisors and our Executive Committee.

Stanley J. Watson, Jr., M.D., Ph.D., is Professor and Associate Chair for Research in the Department of Psychiatry and Co-Director of the Mental Health Research Institute at the University of Michigan. Dr. Watson is a recognized expert in neuropeptides and their receptors and their role in psychiatric diseases and behavior. Dr. Watson is also a member of the Institute of Medicine of the National Academy of Sciences.

Each of the members of our Scientific Advisory Board has signed a consulting agreement that contains confidentiality provisions and restricts him or her from competing with us for the term of the agreement. Each member of our Scientific Advisory Board receives either a per diem consulting fee or a retainer fee. Each member also has received Neurocrine stock or stock options, which vest over time. All members of our Scientific Advisory Board are full-time employees of a university or research institute that has regulations and policies which limit their ability to act as part-time consultants or in other capacities for any commercial enterprise, including Neurocrine. A change in these regulations or policies could adversely affect our relationship with any of our Scientific Advisory Board members.

MANAGEMENT

Executive Officers and Directors

Our Executive Officers and Directors are as follows:

Name	Age	Position
Gary A. Lyons	49	President, Chief Executive Officer and Director
Paul W. Hawran	48	Executive Vice President and Chief Financial Officer
D. Bruce Campbell,		
Ph.D	55	Senior Vice President, Development
Margaret E. Valeur-		
Jensen, J.D., Ph.D	43	Senior Vice President, General Counsel and Corporate Secretary
Joseph A. Mollica, Ph.D.		Obsisses of the Bread of Bissetses
(1)(2)		Chairman of the Board of Directors
Richard F. Pops (1)	38	Director
Stephen A. Sherwin,	E2	Director
M.D.(2) Wylie W. Vale, Ph.D	_	Director
wylle w. vale, Ph.D	59	DITECTO

- (1) Member of the Audit Committee
- (2) Member of the Compensation Committee

Gary A. Lyons has served as our President, Chief Executive Officer and a Director since joining us in February 1993. Prior to joining us, Mr. Lyons held a number of senior management positions at Genentech including Vice President of Business Development and Vice President of Sales. As Vice President of Business Development, Mr. Lyons was responsible for international licensing, acquisitions and partnering. He was also responsible for Genentech's Corporate Venture Program, which participated in early financing and/or formation of a number of biotechnology companies. In addition, Mr. Lyons had operating responsibility for Genentech's two subsidiaries, Genentech Canada, Inc. and Genentech Limited (Japan). As Vice President of Sales, Mr. Lyons was responsible for building the marketing and sales organization for the commercial introduction of Genentech's first two pharmaceutical products, Protropin (human growth hormone) and Activase (TPA). Mr. Lyons currently serves on the Board of Directors for Intrabiotics Pharmaceuticals, Inc. and Vical, Inc. Mr. Lyons holds a B.S. in Marine Biology from the University of New Hampshire and an M.B.A. from Northwestern University's J.L. Kellogg Graduate School of Management.

Paul W. Hawran became our Executive Vice President and Chief Financial Officer in January 2000 after having served as our Senior Vice President and Chief Financial Officer since February 1996 and our Vice President and Chief Financial Officer from 1993 to 1996. Mr. Hawran directs strategic planning, finance, investor relations, human resources, information technologies and operations. Mr. Hawran was employed by SmithKline Beecham Corporation from July 1984 to May 1993, most recently as Vice President and Treasurer. Prior to joining SmithKline in 1984, Mr. Hawran held various financial positions at Warner Communications (now Time Warner) where he was involved in corporate finance, financial planning and domestic and international budgeting and forecasting. Mr. Hawran received a B.S. in Finance from St. John's University and an M.S. in Taxation from Seton Hall University. He is a Certified Public Accountant and a member of the American Institute of Certified Public Accountants, California and Pennsylvania Institute of Certified Public Accountants and the Financial Executives Institute.

D. Bruce Campbell, Ph.D., became our Senior Vice President, Development in January 2000 after having joined us as Vice President, Development in February 1998. In his capacity, Dr. Campbell is responsible for directing our selection and advancement of drug candidates from research into clinical development. He joined us after 27 years at Servier United Kingdom (U.K.), a subsidiary of an international pharmaceutical company based in France, where he served as Research and Development Director from 1972 to 1991 and Director of International Scientific Affairs since 1991 and was involved in the development and registration of a wide range of drugs and vaccines for the treatment of sleep disorders, depression, diabetes, cancer, obesity, neurodegenerative diseases, hypertension, hyperlipidaemia, respiratory disease, peripheral vascular disease,

osteoporosis, flu and tetanus, and blood products such as Factor VIII and albulmin. Dr. Campbell is a past Chairman and Board Member of the Drug Information Association (DIA) and member of the ICH/EFPIA Safety Working Party and is a visiting Professor in Pharmacology at Guys and Kings College London UK. He is recognized as one of the experts on the regulatory aspects of kinetics and toxicology in new drug development and has written standard texts on the subject. Dr. Campbell is also on the editorial board of international journals and a member of many scientific societies and has published more than 100 papers. He is a Fellow of the Royal Society of Chemistry and received his Ph.D. in biochemistry from Guys Hospital Medical School, London University.

Margaret Valeur-Jensen, J.D., Ph.D., became our Senior Vice President, General Counsel and Corporate Secretary in January 2000 after having joined us as Vice President, General Counsel and Secretary in October 1998. Dr. Valeur-Jensen has recognized experience in legal transactions for licensing, corporate partnerships and product commercialization as well as in building intellectual property portfolios. She is responsible for all of our corporate and patent law practices and is a member of our senior management committee. From 1995 to 1998, Dr. Valeur-Jensen served as Associate General Counsel, Licensing and Business Law of Amgen. From 1991 to 1995, she served first as Corporate Counsel and later as Senior Counsel, Licensing for Amgen. She earned a J.D. degree with honors from Stanford University, a Ph.D. in Biochemistry and Molecular Biology from Syracuse University, and was Post-Doctoral Fellow at Massachusetts General Hospital and Harvard Medical School.

Joseph A. Mollica, Ph.D., has served as one of our Directors since June 1997 and became Chairman of the Board in April 1998. Since February 1994, Dr. Mollica has served as the Chairman of the Board of Directors, President and Chief Executive Officer of Pharmacopeia, Inc., a biopharmaceutical company focusing on combinatorial chemistry, high throughput discovery, molecular modeling and bioinformatics. From 1987 to December 1993, Dr. Mollica served as Vice President, Medical Products of DuPont Company and then as President and CEO of DuPont Merck Pharmaceutical Company from 1991 to 1993. At Ciba-Geigy, where he was employed from 1966 to 1986, Dr. Mollica served in a variety of positions of increasing responsibility, rising to Senior Vice President of Ciba-Geigy's Pharmaceutical Division. Dr. Mollica is currently on the Boards of Pharmacopeia, Inc., Impath, Inc. and Nexell Therapeutics, Inc. He received his B.S. from the University of Rhode Island and his M.S. and Ph.D. from the University of Wisconsin.

Richard F. Pops became one of our Directors in April 1998. Since 1991, he has served as Chief Executive Officer of Alkermes, Inc., a publicly traded company involved in the development of pharmaceutical products based on advanced drug delivery systems. Mr. Pops currently serves on the board of directors of Alkermes, Genomics Collaborative, Inc., the Biotechnology Industry Organization, the Massachusetts Biotechnology Council and The Brain Tumor Society, and is Chairman of the Advisory Board of the Department of Biological Chemistry and Molecular Pharmacology at Harvard Medical School. He received a B.A. degree in Economics from Stanford University in 1983.

Stephen A. Sherwin, M.D., was elected to our Board of Directors on April 22, 1999. Since March 1990, Dr. Sherwin has served as Chief Executive Officer and Director of Cell Genesys, Inc. In March 1994, he was elected as Chairman of the Board of Cell Genesys. From 1983 to 1990, Dr. Sherwin held various positions at Genentech, Inc., most recently as Vice President of Clinical Research. Prior to 1983, Dr. Sherwin held various positions on the staff of the National Cancer Institute. He also serves as a Director of Abgenix, Inc., Calyx Therapeutic, Inc. and Rigel Pharmaceuticals, Inc. Dr. Sherwin holds a B.A. from Yale and an M.D. from Harvard Medical School.

Wylie W. Vale, Ph.D., is a Founder and Chairman of our Board of Scientific and Medical Advisors. Dr. Vale was elected a Director in September 1992. He is a Professor and former Chairman of the Faculty at The Salk Institute for Biological Studies and is the Senior Investigator and Head of The Clayton Foundation Laboratories for Peptide Biology at The Salk Institute, where he has been employed for 29 years. He is also an Adjunct Professor of Medicine at the University of California at San Diego and was recently elected to the Institute of Medicine. Dr. Vale is recognized for his work on the molecular, pharmacological and biomedical characterization of neuroendocrine factors including somatostatin, growth hormone releasing factor,

gonadotropin-releasing hormone activin and the activin receptor (the first receptor serine kinase), corticotropin-releasing factor, CRF-binding protein, the CRF R\\1\\ receptor and urocortin, the native ligand for the CRF R\\2\\ receptor. In recognition of his discoveries, he has received numerous awards and is a member of the National Academy of Arts and Sciences and the National Academy of Sciences. He is a past President of the American Endocrine Society and is the current President of the International Society of Endocrinology. Dr. Vale received a B.A. in Biology from Rice University and a Ph.D. in Physiology and Biochemistry from the Baylor College of Medicine.

PRINCIPAL STOCKHOLDERS

The following table sets forth the beneficial ownership of our common stock as of October 31, 2000 by (i) each of our executive officers, (ii) each of our directors, (iii) all of our directors and executive officers as a group and (iv) all persons known to us to be the beneficial owners of more than 5% of our common stock. A total of 22,066,248 shares of our common stock were issued and outstanding as of October 31, 2000.

Name and Address of Beneficial Owner(1)	Beneficially	Percent of Outstanding Shares	Percent of Outstanding Shares After This Offering
T. Rowe Price Associates			
100 East Pratt Street, Baltimore, MD			
21202	1,687,800	7.65%	6.73%
D. Bruce Campbell(3)	117,584	*	*
Paul W. Hawran(4)	369,657	1.66%	1.46%
Gary A. Lyons(5)	957,998	4.24%	3.74%
Margaret E. Valeur-Jensen(6)	71,097	*	*
Joseph A. Mollica(7)	42,773	*	*
Richard F. Pops(8)	16,498	*	*
Stephen A. Sherwin(9)	13,304	*	*
Wylie W. Vale(10)	442,183	1.99%	1.75%
All executive officers and Directors as			
a group (8 persons)(11)	2,031,094	8.74%	7.74%

- * Represents beneficial ownership of less than one percent (1%) of the 22,066,248 outstanding shares of our common stock as of October 31, 2000.
- (1) The address of each individual named is Neurocrine Biosciences, Inc., 10555 Science Center Drive, San Diego, CA 92121, unless otherwise indicated.
- (2) Beneficial ownership is determined in accordance with the rules of the Securities and Exchange Commission and generally includes voting or investment power with respect to securities. Shares of common stock subject to stock options and warrants currently exercisable or exercisable within 60 days of October 31, 2000 are deemed to be outstanding for computing the percentage ownership of the person holding such options and the percentage ownership of any group of which the holder is a member, but are not deemed outstanding for computing the percentage of any other person. Except as indicated by footnote, and subject to community property laws where applicable, the persons named in the table have sole voting and investment power with respect to all shares of common stock shown beneficially owned by them.
- (3) Includes 117,087 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (4) Includes 255,359 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (5) Includes 535,642 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (6) Includes 64,279 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (7) Includes 42,773 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (8) Includes 16,498 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (9) Includes 13,304 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (10) Includes 133,053 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.
- (11) Includes an aggregate of 1,177,995 shares issuable pursuant to options exercisable within 60 days of October 31, 2000.

UNITED STATES TAX CONSEQUENCES TO NON-U.S. HOLDERS

The following is a general discussion of the principal United States federal income and estate tax consequences of the acquisition, ownership and disposition of our common stock by a Non-U.S. Holder. As used in this prospectus, the term "Non-U.S. Holder" is a person who holds our common stock other than:

- . a citizen or resident of the United States,
- a corporation or other entity taxable as a corporation created or organized in or under the laws of the United States or of any political subdivision of the United States,
- . an estate the income of which is includable in gross income for United States federal income tax purposes regardless of its source, or
- . a trust subject to the primary supervision of a United States court and the control of one or more United States persons, or a trust (other than a wholly-owned grantor trust) that was treated as a domestic trust despite not meeting the requirements described above.

This discussion does not consider:

- . state, local or foreign tax consequences,
- specific facts and circumstances that may be relevant to a particular Non-U.S. Holder's tax position in light of their particular circumstances,
- . the tax consequences for the stockholders or beneficiaries of a Non-U.S. holder,
- . special tax rules that may apply to certain Non-U.S. Holders, including without limitation, partnerships, banks, insurance companies, dealers in securities and traders in securities, or
- . special tax rules that may apply to a Non-U.S. Holder that holds our common stock as part of a "straddle," "hedge" or "conversion transaction."

The following discussion is based on provisions of the United States Internal Revenue Code of 1986, as amended, also known as the Code, applicable Treasury regulations and administrative and judicial interpretations, all as of the date of this prospectus, and all of which are subject to change, retroactively or prospectively. The following discussion assumes that our common stock is held as a capital asset. The following summary is for general information. Accordingly, each Non-U.S. Holder should consult a tax advisor regarding the United States federal, state, local and foreign income and other tax consequences of acquiring, holding and disposing of shares of our common stock.

Dividends

We do not anticipate paying cash dividends on our common tock in the foreseeable future. See "Dividend Policy." In the event, however, that dividends are paid on shares of our common stock, dividends paid to a Non-U.S. Holder of our common stock generally will be subject to withholding of United States federal income tax at a 30% rate, or such lower rate as may be provided by an applicable income tax treaty.

Dividends that are effectively connected with a Non-U.S. Holder's conduct of a trade or business in the United States or, if an income tax treaty applies, attributable to a permanent establishment in the United States, known as "United States trade or business income," are generally subject to United States federal income tax on a net income basis at regular graduated rates, but are not generally subject to the 30% withholding tax if the Non-U.S. Holder files the appropriate United States Internal Revenue Service form with the payor. Any United States trade or business income received by a Non-U.S Holder that is a corporation may also, under certain circumstances, be subject to an additional "branch profits tax" at a 30% rate or such lower rate as specified by an applicable income tax treaty.

Dividends paid prior to 2001 to an address in a foreign country are presumed, absent actual knowledge to the contrary, to be paid to a resident of such country for purposes of the withholding discussed above and for purposes of determining the applicability of a tax treaty rate. For dividends paid after 2000, a Non-U.S. Holder of our common stock who claims the benefit of an applicable income tax treaty rate generally will be required to satisfy applicable certification and other requirements. Non-U.S. Holders should consult their tax advisors regarding their entitlement to benefits under a relevant income tax treaty.

A Non-U.S. Holder of our common stock that is eligible for a reduced rate of United States withholding tax under an income tax treaty may obtain a refund or credit of any excess amounts withheld by filing an appropriate claim for a refund with the United States Internal Revenue Service.

Gain on Disposition of Common Stock

A Non-U.S. Holder generally will not be subject to United States federal income tax in respect of gain recognized on a disposition of our common stock unless:

- the gain is United States trade or business income, in which case the branch profits tax described above may apply to a corporate Non-U.S. Holder,
- . the Non-U.S. Holder is an individual who holds our common stock as a capital asset within the meaning of Section 1221 of the Code, is present in the United States for more than 182 days in the taxable year of the disposition and meets certain other requirements,
- . the Non-U.S. Holder is subject to tax pursuant to the provisions of the United States tax law applicable to certain United States expatriates, or
- . we are or have been a "United States real property holding corporation" for United States federal income tax purposes at any time during the shorter of the five-year period ending on the date of disposition or the period that the Non-U.S. Holder held our common stock.

Generally, a corporation is a "United States real property holding corporation" if the fair market value of its "United States real property interest" equals or exceeds 50% of the sum of the fair market value of its worldwide real property interests plus its other assets used or held for use in a trade or business. We believe we have never been, are not currently and are not likely to become a United States real property holding corporation for United States federal income tax purposes.

Federal Estate Tax

Common stock owned or treated as owned by an individual who is a Non-U.S. Holder at the time of death will be included in the individual's gross estate for United States federal estate tax purposes, unless an applicable estate tax or other treaty provides otherwise.

Information Reporting and Backup Withholding Tax

We must report annually to the United States Internal Revenue Service and to each Non-U.S. Holder the amount of dividends paid to that holder and the tax withheld with respect to those dividends. Copies of the information returns reporting those dividends and withholding may also be made available to the tax authorities in the country in which the Non-U.S. Holder is a resident under the provisions of an applicable income tax treaty or agreement.

Under certain circumstances, United States Treasury Regulations require information reporting and backup withholding at a rate of 31% on certain payments on our common stock. Under currently applicable law, Non-U.S. Holders of our common stock, generally will be exempt from backup withholding on dividends paid prior to 2001 to an address outside the United States. For dividends paid after 2000, however, a Non-U.S. Holder of our common stock that fails to certify its Non-U.S. holder status in accordance with applicable United States Treasury Regulations may be subject to backup withholding at a rate of 31% of dividends.

The payment of the proceeds of the disposition of our common stock by a holder to or through the United States office of a broker generally will be subject to information reporting and backup withholding at a rate of 31% unless the holder either certifies its status as a Non-U.S. Holder under penalties of perjury or otherwise establishes an exemption. The payment of the proceeds of the disposition by a Non-U.S. Holder of our common stock to or through a foreign office of a foreign broker will not be subject to backup withholding or information reporting unless the foreign broker is a "United States related person." In the case of the payment of proceeds from the disposition of our common stock by or through a foreign office of a broker that is a United States person or a "United States related person," information reporting, but currently not backup withholding, on the payment applies unless the broker receives a statement from the owner, signed under penalty of perjury, certifying its foreign status or the broker has documentary evidence in its files that the holder is a Non-U.S. Holder and the broker has no actual knowledge to the contrary. For this purpose, a "United States related person" is:

- . a "controlled foreign corporation" for United States federal income tax purposes,
- . a foreign person 50% or more of whose gross income from all sources for the three-year period ending with the close of its taxable year preceding the payment, or for such part of the period that the broker has been in existence, is derived from activities that are effectively connected with the conduct of a United State trade or business,
- . effective after 2000, a foreign partnership if, at any time during the taxable year, (A) at least 50% of the capital or profits interest in the partnership is owned by United States persons, or (B) the partnership is engaged in a United States trade or business, or
- . certain U.S. branches of foreign banks or insurance companies.

Effective after 2000, backup withholding may apply to the payment of disposition proceeds by or through a foreign office or a broker that is a United States person or a United States related person unless certain certification requirements are satisfied or an exemption is otherwise established and the broker has no actual knowledge that the holder is a United States person. Non-U.S. Holders should consult their own tax advisors regarding the application of the information reporting and backup withholding rules to them, including changes to these rules that will become effective after 2000.

Any amounts withheld under the backup withholding rules from a payment to a Non-U.S. Holder will be refunded, or credited against the holder's United States federal income tax liability, if any, provided that the required information is furnished to the United States Internal Revenue Service.

UNDERWRITING

We are offering the shares of common stock described in this prospectus through a number of underwriters. Robertson Stephens, Inc. and Salomon Smith Barney Inc. are the representatives of the underwriters. We will enter into an underwriting agreement with the representatives. Subject to the terms and conditions of the underwriting agreement, we will sell to the underwriters, and each underwriter will separately purchase from us, the number of shares of common stock listed next to its name below at the public offering price, less the underwriting discount described on the cover page of this prospectus:

Underwriter	Number of Shares
Robertson Stephens, Inc	
Total	3,000,000

The underwriting agreement will provide that the underwriters must buy all of these shares from us if they buy any of them. The underwriters will sell these shares to the public when and if the underwriters buy them from us. The underwriters are offering the common stock subject to a number of conditions, including:

- . the underwriters' receipt and acceptance of the common stock from us; and
- . the underwriters' right to reject orders in whole or in part.

The underwriters expect to deliver the shares of common stock to purchasers on , 2000.

Over-Allotment Option. We will grant the underwriters an option to buy up to 450,000 additional shares of our common stock at the same price per share as they are paying for the shares shown in the table above. The underwriters may exercise this option only to the extent that they sell more than the total number of shares shown in the table above. The underwriters may exercise this option at any time within 30 days after the date of this prospectus. To the extent that the underwriters exercise this option, the underwriters will be obligated to purchase additional shares from us in the same proportions as they purchased the shares shown in the table above. If purchased, these additional shares will be sold by the underwriters on the same terms as those on which the other shares are sold.

Stock Market Listing. Our common stock is quoted on the Nasdaq National Market under the symbol "NBIX."

Underwriting Discounts and Commissions. The underwriting discount is the difference between the price the underwriters pay to us and the price at which the underwriters initially offer the shares to the public. The size of the underwriting discount is determined through an arms-length negotiation between us and the representatives. The following table shows the per share and total underwriting discount we will allow to the underwriters. These amounts are shown assuming no exercise and full exercise of the underwriters' overallotment option described above:

		Total		
	_	No Exercise of Option	Full Exercise of Option	
Public offering price Underwriting discount Proceeds, before expenses, to us	\$	\$ \$ \$	\$ \$ \$	

The expenses of this offering, not including the underwriting discount, are estimated to be approximately \$495,000 and will be paid by us. Expenses include the SEC filing fee, the NASD filing fee, Nasdaq listing fees, printing expenses, legal and accounting fees, transfer agent and registrar fees and other miscellaneous fees and expenses.

Lock-Up Agreements. We and our executive officers and directors have agreed, with exceptions, not to sell or transfer any shares of our common stock for 90 days after the date of this prospectus without first obtaining the written consent of Robertson Stephens, Inc. Specifically, we and these other individuals have agreed not to, directly or indirectly:

- offer to sell, contract to sell, or otherwise sell or dispose of any shares of our common stock;
- . loan, pledge or grant any rights with respect to any shares of our common stock;
- engage in any hedging or other transaction that might result in a disposition of shares of our common stock by anyone;
- . execute any short sale, whether or not against the box; or
- . purchase, sell or grant any put or call option or other right with respect to our common stock or with respect to any security other than a broad-based market basket or index that includes, relates to or derives any significant part of its value from our common stock.

These lock-up agreements do not prohibit bona fide gifts, or transfers in connection with bona fide estate planning, provided the transferees agree in writing to be bound by the lock-up agreement. These lock-up agreements apply to shares of our common stock and also to any options or warrants to purchase any shares of our common stock or any securities convertible into or exchangeable for shares of our common stock. These lock-up agreements apply to all such securities that are owned or later acquired by the persons executing the agreements, except for securities acquired on the open market after signing the lock-up agreement and excepting 100,000 shares which Mr. Lyons has pledged to secure a loan for residential real estate. In addition, we have agreed with Robertson Stephens, Inc. that, to the extent that we have separate market stand-off agreements with our officers and directors, we will not consent to the stockholders' disposition of any shares subject to those separate market stand-off agreements prior to the expiration of the lock-up period. However, Robertson Stephens, Inc. may release any of us from these agreements at any time during the 90-day period, in its sole discretion and without notice, as to some or all of the shares covered by these agreements. Robertson Stephens will consider each lock-up release request on a case by case basis. Among the factors that may be relevant to its consideration are the number of shares proposed to be transferred as compared to the recent average daily trading volume of the stock, the recent strength of the stock price, Robertson Stephens's sense of how the market would react to the announcement of a sale by the particular insider and whether Robertson Stephens, on behalf of the underwriting syndicate, is still engaged in stabilization activity as permitted by Regulation M. Currently, there are no agreements between the representatives and us or any of our stockholders to release any of us from the lock-up agreements during this 90-day period.

Indemnification of the Underwriters. We will indemnify the underwriters against some civil liabilities, including liabilities under the Securities Act and liabilities arising from breaches of our representations and warranties contained in the underwriting agreement. If we are unable to provide this indemnification, we will contribute to payments the underwriters may be required to make in respect of those liabilities.

Dealers' Compensation. The underwriters initially will offer our shares to the public at the price specified on the cover page of this prospectus. The underwriters may allow to selected dealers a concession of not more than \$ per share. The underwriters may also allow, and any other dealers may reallow, a concession of not more than \$ per share to some other dealers. If all the shares are not sold at the public offering price, the underwriters may change the public offering price and the other selling terms. A change in the public offering price will not affect the amount of proceeds that we receive.

Online Activities. A prospectus in electronic format may be made available on the internet sites or through other online services maintained by one or more of the underwriters of this offering, or by their

affiliates. In those cases, prospective investors may view offering terms online and, depending upon the particular underwriter, prospective investors may be allowed to place orders online. The underwriters may agree with us to allocate a specific number of shares for sale to online brokerage account holders. Any such allocation for online distributions will be made by the representatives on the same basis as other allocations. Other than the prospectus in electronic format, information on these web sites is not a part of this prospectus and you should not rely on other information on these web sites in making a decision to invest in our shares. Neither of the representatives intends to confirm sales through electronic delivery or by any means other than by hand or the mails. Neither of the representatives intends to confirm sales with an electronic prospectus or with any form of prospectus other than a printed prospectus.

Stabilization and Other Transactions. The rules of the SEC generally prohibit the underwriters from trading in our common stock on the open market during this offering. However, the underwriters are allowed to engage in some open market transactions and other activities during this offering that may cause the market price of our common stock to be above or below that which would otherwise prevail in the open market. These activities may include stabilization, short sales and over-allotments, syndicate covering transactions and penalty bids.

- . Stabilizing transactions consist of bids or purchases made by the lead representative for the purpose of preventing or slowing a decline in the market price of our common stock while this offering is in progress.
- . Short sales and over-allotments occur when the representatives, on behalf of the underwriting syndicate, sell more of our shares than they purchase from us in this offering. "Covered" shorts are short sales made in an amount not greater than the underwriters' option to purchase additional shares from us in the offering. The underwriters may close out any covered short position either by exercising that option to purchase shares from us or by purchasing shares in the open market. In determining the source of shares to close out a covered short position, the underwriters will consider, among other things, the prevailing market price per share compared to the exercise price per share of their option. "Naked" shorts are any short sales by the underwriters in excess of their option. The underwriters must close out any naked short position by purchasing shares in the open market, potentially including purchases made as stabilizing transactions. For this reason, a naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the common stock in the open market after pricing that could adversely affect investors who purchase in the offering.
- . Syndicate covering transactions are bids for or purchases of our common stock on the open market by the representatives on behalf of the underwriters in order to reduce a short position incurred by the representatives on behalf of the underwriters. Similar to other purchase transactions, syndicate covering transactions may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market.
- . A penalty bid is an arrangement permitting the representatives to reclaim the selling concession that would otherwise accrue to an underwriter if the common stock originally sold by that underwriter was later repurchased by the representatives and therefore was not effectively sold to the public by such underwriter.

If the underwriters commence these activities, they may discontinue them at any time without notice. The underwriters may carry out these transactions on the Nasdaq National Market, in the over-the-counter market or otherwise.

Passive Market Making. Prior to the pricing of this offering, and until the commencement of any stabilizing bid, underwriters and dealers who are qualified market makers on the Nasdaq National Market may engage in passive market making transactions. Passive market making is allowed during the period when the SEC's rules would otherwise prohibit market activity by the underwriters and dealers who are participating in

this offering. Passive market makers must comply with applicable volume and price limitations and must be identified as such. In general, a passive market maker must display its bid at a price not in excess of the highest independent bid for our common stock; but if all independent bids are lowered below the passive market maker's bid, the passive market maker must also lower its bid once it exceeds specified purchase limits. Net purchases by a passive market maker on each day are limited to a specified percentage of the passive market maker's average daily trading volume in our common stock during a specified period and must be discontinued when such limit is reached. Underwriters and dealers are not required to engage in passive market making and may end passive market making activities at any time.

Some of the underwriters have in the past and may in the future perform financial advisory services for us.

LEGAL MATTERS

The validity of the shares of our common stock offered hereby will be passed upon by Latham & Watkins, San Francisco, California, counsel to the Company. Certain legal matters will be passed upon for the underwriters by O'Melveny & Myers LLP, San Francisco, California, counsel to the underwriters.

EXPERTS

Our financial statements appearing in our Annual Report on Form 10-K for the year ended December 31, 1999 have been audited by Ernst & Young LLP, independent auditors, as set forth in their report thereon included therein and incorporated herein by reference. Such financial statements are incorporated herein by reference in reliance upon such report given upon the authority of such firm as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We are subject to the informational requirements of the Securities Exchange Act of 1934, as amended. Accordingly, we file annual, quarterly and special reports, proxy statements and other information with the Securities and Exchange Commission. You may read and copy any document that we have filed at the SEC's public reference rooms in Washington, D.C., New York, New York, and Chicago, Illinois. Please call the SEC at 1-800-SEC-0330 for further information on the public reference rooms. You can obtain copies of our SEC filings at prescribed rates from the SEC Public Reference Section at 450 Fifth Street, N.W., Washington, D.C. 20549. Our SEC filings are also available to you free of charge at the SEC's web site at http://www.sec.gov. Information contained in our web site is not part of this prospectus.

Shares of our common stock are traded as "National Market Securities" on the Nasdaq National Market. Documents we have filed can be inspected at the offices of the National Association of Securities Dealers, Inc., Reports Section, 1735 K Street, N.W., Washington, D.C. 20006.

This prospectus is a part of a registration statement on Form S-3 filed by us with the SEC under the Securities Act of 1933, as amended. This prospectus does not contain all of the information set forth in the registration statement, certain parts of which are omitted in accordance with the rules and regulations of the SEC. For further information with respect to us and the shares of common stock we are offering hereby, please refer to the registration statement. The registration statement may be inspected at the public reference facilities maintained by the SEC at the addresses set forth above. Statements in this prospectus about any document filed as an exhibit are not necessarily complete and, in each instance, you should refer to the copy of such document filed with the SEC. Each such statement is qualified in its entirety by such reference.

INFORMATION INCORPORATED BY REFERENCE

The SEC allows us to "incorporate by reference" the information filed with them, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is considered to be part of this prospectus, and information that we have filed later with the SEC will automatically update and supersede previously filed information, including information contained in this prospectus.

We incorporate by reference the documents listed below and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act until this offering has been completed:

. Our Annual Report on Form 10-K for the fiscal year ended December 31, 1999 (File No. 000-22705) (including information specifically incorporated by reference into our Form 10-K from our 2000 Annual Report to Stockholders and Proxy Statement for our 2000 Annual Meeting of Stockholders), filed with the SEC on March 30, 2000, as amended by our Amended Annual Report on Form 10-K/A, filed with the SEC on November 30, 2000:

- . Our Current Report on Form 8-K, filed with the SEC on April 6, 2000;
- . Our Quarterly Report on Form 10-Q for the quarter ended March 31, 2000, filed with the SEC on May 15, 2000;
- . Our Quarterly Report on Form 10-Q for the quarter ended June 30, 2000, filed with the SEC on August 11, 2000;
- . Our Quarterly Report on Form 10-Q for the quarter ended September 30, 2000, filed with the SEC on November 8, 2000;
- . The description of our common stock contained in our registration statement on Form 8-A (Registration No. 000-28150), as amended, filed with the SEC on April 3, 1996; and
- . The description of the preferred share purchase rights contained in our registration statement on Form 8-A (Registration No. 000-22705), as amended, filed with the SEC on June 16, 1997.

You may request a free copy of these documents by writing to Investor Relations, Neurocrine Biosciences, Inc., 10555 Science Center Drive, San Diego, California 92121, or by calling our Investor Relations department at (858) 658-7600.

"Neurocrine Biosciences" is our trademark. This prospectus also contains trademarks and tradenames of other companies.

You should rely only on the information incorporated by reference or provided in this prospectus or a prospectus supplement or amendment. We have not authorized anyone to provide you with different information. We are not making an offer of these securities in any state where the offer is not permitted. Also, this prospectus does not offer to sell any securities other than the securities covered by this prospectus. You should not assume that the information in this prospectus or a prospectus supplement or amendment is accurate as of any date other than the date on the front of the document.

[LOGO OF NEUROCRINE BIOSCIENCES]

SUBJECT TO COMPLETION, DATED NOVEMBER 30, 2000
[LOGO OF NEUROCRINE BIOSCIENCES]
3,000,000 Shares
Common Stock

Neurocrine Biosciences, Inc. is offering 3,000,000 shares of its common stock. Neurocrine Biosciences, Inc.'s common stock is traded on the Nasdaq National Market under the symbol "NBIX." The last reported sale price of the common stock on the Nasdaq National Market on November 21, 2000 was \$33.13 per share.

Investing in our common stock involves risks.
See "Risk Factors" beginning on page 5.

	Per Share	Total
Public Offering Price	\$	\$
Underwriting Discounts and Commissions	\$	\$
Proceeds to Neurocrine Biosciences, Inc	\$	\$

The United States Securities and Exchange Commission has not approved or disapproved these securities, or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

Neurocrine Biosciences, Inc. has granted the underwriters a 30-day option to purchase up to an additional 450,000 shares of common stock to cover overallotments.

Robertson Stephens International Salomon Smith Barney Inc.

The date of this prospectus is , 2000.

INFORMATION NOT REQUIRED IN THE PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The Company will pay all expenses incident to the offering and sale to the public of the shares being registered other than any commissions and discounts of underwriters, dealers or agents and any transfer taxes. Such expenses are set forth in the following table. All of the amounts shown are estimates except the SEC registration fee, the NASD filing fee and the Nasdaq National Market listing fee.

SEC registration fee	\$ 38,226
Nasdaq listing fee	17,500
NASD filing fee	14,990
Printing and engraving expenses	100,000
Legal fees and expenses	250,000
Accounting fees and expenses	
Miscellaneous expenses	14,500
Total	\$495,216

Item 15. Indemnification of Directors and Officers.

Section 145 of the General Corporation Law of the State of Delaware provides that a corporation has the power to indemnify a director, officer, employee or agent of the corporation and certain other persons serving at the request of the corporation in related capacities against amounts paid and expenses incurred in connection with an action or proceeding to which he or she is or is threatened to be made a party by reason of such position, if such person has acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal proceeding, if such person had no reasonable cause to believe his or her conduct was unlawful; provided that, in the case of actions brought by or in the right of the corporation, no indemnification may be made with respect to any matter as to which such person has been adjudged to be liable to the corporation unless and only to the extent that the adjudicating court determines that such indemnification is proper under the circumstances. The termination of any action, suit or proceeding by judgment, order, settlement, conviction, or upon a plea of nolo contendere or its equivalent, shall not, of itself, create a presumption that the person did not act in good faith and in a manner which the person reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had reasonable cause to believe that his or her conduct was unlawful.

The Registrant's Certificate of Incorporation provides that to the fullest extent permitted by the General Corporation Law of the State of Delaware as the same now exists or as may hereafter be amended, no director shall be personally liable to the Registrant or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liability (i) for any breach of the director's duty of loyalty to the Registrant or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) for authorizing the payment of a dividend or repurchase of stock or (iv) for any transaction in which the director derived an improper personal benefit.

The Registrant's bylaws provide that the Registrant shall, to the maximum extent and in the manner permitted by the General Corporation Law of the State of Delaware as the same now exists or may hereafter be amended, indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending, or completed action, suit or proceeding by reason of the fact that (i) he or she is or was a director or officer of the Registrant, (ii) he or she is or was serving at the request of the Registrant as a director or officer of another corporation, partnership, joint venture, trust or other enterprise, or (iii) he or she was a director or officer of a corporation which was a predecessor corporation of the Registrant or of another enterprise at the request of such predecessor corporation, against expenses (including attorney's fees), judgments, fines and

amounts paid in settlement actually and reasonably incurred by him or her in connection with such action, suit or proceeding.

The Registrant's bylaws provide further that the Registrant, to the maximum extent and in the manner permitted by the General Corporation Law of the State of Delaware as the same now exists or may hereafter be amended, has the power to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending, or completed action, suit or proceeding by reason of the fact that (i) he or she is or was an employee or agent (other than a director or officer) of the Registrant, (ii) he or she is or was serving at the request of the Registrant as an employee or agent (other than a director or officer) of another corporation, partnership, joint venture, trust or other enterprise, or (iii) he or she was an employee or agent (other than a director or officer) of a corporation which was a predecessor corporation of the Registrant or of another enterprise at the request of such predecessor corporation, against expenses (including attorney's fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with such action, suit or proceeding.

Pursuant to its bylaws, the Registrant has the power to purchase and maintain a directors and officers liability policy to insure its directors and officers against certain liabilities.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers or persons controlling the Registrant pursuant to the foregoing provisions, the Registrant has been informed that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is therefore unenforceable.

Item 16. Exhibits.

Exhibit Number Description

- 1.1 Form of Underwriting Agreement.
- 5.1 Opinion of Latham & Watkins.
- 23.1 Consent of Ernst & Young LLP.
- 23.2 Consent of Counsel (included in Exhibit 5.1).
- 24.1+ Power of Attorney.
- 24.2+ Power of Attorney for Joseph A. Mollica and Stephen A. Sherwin.

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+ Previously filed.

Item 17. Undertakings.

- (i) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (ii) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the

Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

- (iii) The undersigned registrant hereby undertakes that:
- (1) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this amendment to this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of San Diego, California, on this 30th day of November, 2000.

NEUROCRINE BIOSCIENCES, INC.

/s/ Paul W. Hawran

By:

Paul W. Hawran, Executive Vice President and Chief Financial Officer

Pursuant to the requirements of the Securities Act of 1933, this amendment to this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
* Gary A. Lyons	President, Chief Executive Officer and Director (Principal	November 30, 2000
out y 71. Lyons	Executive Officer)	
/s/ Paul W. Hawran	Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)	November 30, 2000
Paul W. Hawran		
*	Chairman of the Board of Directors	November 30, 2000
Joseph A. Mollica		
*	Director	November 30, 2000
Stephen A. Sherwin		
*	Director	November 30, 2000
Richard F. Pops		
*	Director	November 30, 2000
Wylie W. Vale		
/s/ Paul W. Hawran *By:		
Paul W. Hawran Attorney-in-Fact		

INDEX OF EXHIBITS

Exhibit Number Description 1.1 Form of Underwriting Agreement. 5.1 Opinion of Latham & Watkins. 23.1 Consent of Ernst & Young LLP. 23.2 Consent of Counsel (included in Exhibit 5.1). 24.1+ Power of Attorney. 24.2+ Power of Attorney for Joseph A. Mollica and Stephen A. Sherwin.

+ Previously filed.

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Form of Underwriting Agreement

[Date]

Robertson Stephens, Inc.
Salomon Smith Barney Inc.
As Representatives of the several Underwriters
c/o Robertson Stephens, Inc.
555 California Street, Suite 2600
San Francisco, CA 94104

Ladies and Gentlemen:

Introductory. Neurocrine Biosciences, Inc., a Delaware corporation (the "Company"), proposes to issue and sell to the several underwriters named in Schedule A (the "Underwriters") an aggregate of 3,000,000 shares (the "Firm

Shares") of its Common Stock, par value \$0.001 per share (the "Common Shares"). In addition, the Company has granted to the Underwriters an option to purchase up to an additional 450,000 Common Shares (the "Option Shares") as provided in Section 2. The Firm Shares and, if and to the extent such option is exercised, the Option Shares are collectively called the "Shares." Robertson Stephens, Inc. ("Robertson Stephens"), and Salomon Smith Barney Inc. have agreed to act as representatives of the several Underwriters (in such capacity, the "Representatives") in connection with the offering and sale of the Shares.

The Company has prepared and filed with the Securities and Exchange Commission (the "Commission") a registration statement on Form S-3 (File No. 333-47252), which contains a form of prospectus, subject to completion, to be used in connection with the public offering and sale of the Shares. Each such prospectus, subject to completion, used in connection with such public offering is called a "preliminary prospectus." Such registration statement, as amended, including the exhibits and schedules thereto, in the form in which it was declared effective by the Commission under the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder (collectively, the "Securities Act"), including all documents and the financial statements incorporated or deemed to be incorporated by reference therein and including any information deemed to be a part thereof at the time of effectiveness pursuant to Rule 430A under the Securities Act, is called the "Registration Statement." Any registration statement filed by the Company pursuant to Rule 462(b) under the Securities Act is called the "Rule 462(b) Registration Statement," and from and after the date and time of filing of the Rule 462(b) Registration Statement the term "Registration Statement" shall include the Rule 462(b) Registration Statement. Such prospectus, in the form first used by the Underwriters to confirm sales of the Shares, including all documents incorporated or deemed to be incorporated by reference therein and any information deemed to be a part thereof at such time pursuant to Rule 430A or 434 under the Securities Act or the Securities Exchange Act of 1934, as

amended, and the rules and regulations promulgated thereunder (collectively, the "Exchange Act") is called the "Prospectus," which term shall be deemed to include the "electronic Prospectus" provided by the Company for use in connection with the offering of the Shares as contemplated by Section 3(e) of this Agreement. All references in this Agreement to the Registration Statement, the Rule 462(b) Registration Statement, a preliminary prospectus, the Prospectus, or any amendments or supplements to any of the foregoing, shall include any copy thereof filed with the Commission pursuant to its Electronic Data Gathering, Analysis and Retrieval System ("EDGAR"). All references in this Agreement to financial statements and schedules and other information which is "contained," "included" or "stated" in the Registration Statement or the Prospectus (and all other references of like import) shall be deemed to mean and include all such financial statements and schedules and other information which is or is deemed to be incorporated by reference in the Registration Statement or the Prospectus, as the case may be; and all references in this Agreement to amendments or supplements to the Registration Statement or the Prospectus shall be deemed to mean and include the filing of any document under the Exchange Act which is or is deemed to be incorporated by reference in the Registration Statement or the Prospectus, as the case may be.

The Company hereby confirms its agreement with the Underwriters as follows:

Section 1. Representations and Warranties of the Company.

(a) Compliance with Registration Requirements. The Registration Statement and any Rule 462(b) Registration Statement have been declared effective by the Commission under the Securities Act. The Company has complied to the Commission's satisfaction with all requests of the Commission for additional or supplemental information. No stop order suspending the effectiveness of the Registration Statement or any Rule 462(b) Registration Statement is in effect and no proceedings for such purpose have been instituted or are pending or, to the best knowledge of the Company, are contemplated or threatened by the Commission.

Each preliminary prospectus and the Prospectus when filed complied in all material respects with the Securities Act and, if filed by electronic transmission pursuant to EDGAR (except as may be permitted by Regulation S-T under the Securities Act), was identical to the copy thereof delivered to the Underwriters for use in connection with the offer and sale of the Shares. Each of the Registration Statement, any Rule 462(b) Registration Statement and any post-effective amendment thereto, at the time it became effective and at all subsequent times, complied and will comply in all material respects with the Securities Act and did not and will not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading. Each preliminary prospectus, as of its date, and the Prospectus, as amended or supplemented, as of its date and at all subsequent times through the 30th day after the date hereof, did not and will not contain any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The representations and warranties set forth in the two immediately preceding sentences do not apply to statements in or omissions from the Registration Statement, any Rule 462(b) Registration Statement, or any post-effective amendment thereto, or the Prospectus, or any amendments or

supplements thereto, made in reliance upon and in conformity with information relating to any Underwriter furnished to the Company in writing by the Representatives expressly for use therein. There are no contracts or other documents required to be described in the Prospectus or to be filed as exhibits to the Registration Statement which have not been described or filed as required.

- (b) Offering Materials Furnished to Underwriters. The Company has delivered to the Representatives one complete conformed copy of the Registration Statement and of each consent and certificate of experts filed as a part thereof, and conformed copies of the Registration Statement (without exhibits) and preliminary prospectuses and the Prospectus, as amended or supplemented, in such quantities and at such places as the Representatives have reasonably requested for each of the Underwriters.
- (c) Distribution of Offering Material By the Company. The Company has not distributed and will not distribute, prior to the later of the Second Closing Date (as defined below) and the completion of the Underwriters' distribution of the Shares, any offering material in connection with the offering and sale of the Shares other than a preliminary prospectus, the Prospectus or the Registration Statement.
- (d) Exchange Act Compliance. The documents incorporated or deemed to be incorporated by reference in the Prospectus, at the time they were or hereafter are filed with the Commission, complied and will comply in all material respects with the requirements of the Exchange Act, and, when read together with the other information in the Prospectus, at the time the Registration Statement and any amendments thereto become effective and at the First Closing Date and the Second Closing Date, as the case may be, will not contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading.
- (e) Exchange Act Reports Filed. The Company has filed all reports required to be filed pursuant to the Securities Act and the Exchange Act.
- (f) Conditions for Use of Form S-3. The Company has satisfied the conditions for the use of Form S-3, as set forth in the general instructions thereto, with respect to the Registration Statement.
- (g) The Underwriting Agreement. This Agreement has been duly authorized, executed and delivered by, and is a valid and binding agreement of, the Company, enforceable in accordance with its terms, except as rights to indemnification hereunder may be limited by applicable law and applicable public policy and except as the enforcement hereof may be limited by bankruptcy, insolvency, reorganization, moratorium or other similar laws relating to or affecting the rights and remedies of creditors or by general equitable principles.
- (h) Authorization of the Shares. The Shares to be purchased by the Underwriters from the Company have been duly authorized for issuance and sale pursuant to this Agreement and, when issued and delivered by the Company pursuant to this Agreement, will be validly issued, fully paid and nonassessable.

- (i) No Applicable Registration or Other Similar Rights. There are no persons with registration or other similar rights to have any equity or debt securities registered for sale under the Registration Statement or included in the offering contemplated by this Agreement, except for such rights as have been duly waived.
- (j) No Material Adverse Change. Subsequent to the respective dates as of which information is given in the Prospectus and through the date hereof: (i) there has been no material adverse change, or any development that could reasonably be expected to result in a material adverse change, in the condition, financial or otherwise, or in the earnings, business, operations or prospects, whether or not arising from transactions in the ordinary course of business, of the Company and its subsidiary, considered as one entity (any such change or effect, where the context so requires, is called a "Material Adverse Change" or a "Material Adverse Effect"); (ii) the Company and its subsidiary, considered as one entity, have not incurred any material liability or obligation, indirect, direct or contingent, not in the ordinary course of business nor entered into any material transaction or agreement not in the ordinary course of business; and (iii) there has been no dividend or distribution of any kind declared, paid or made by the Company or, except for dividends paid to the Company, its subsidiary on any class of capital stock or repurchase or redemption by the Company or its subsidiary of any class of capital stock.
- (k) Independent Accountants. Ernst & Young LLP, who have expressed their opinion with respect to the financial statements (which term as used in this Agreement includes the related notes thereto) and supporting schedules filed with the Commission and incorporated by reference in the Registration Statement and in the Prospectus, are independent public or certified public accountants as required by the Securities Act.
- (1) Preparation of the Financial Statements. The financial statements filed with the Commission and incorporated by reference in the Registration Statement and in the Prospectus present fairly the consolidated financial position of the Company and its subsidiary as of and at the dates indicated and the results of their operations and cash flows for the periods specified. Such financial statements have been prepared in conformity with generally accepted accounting principles applied on a consistent basis throughout the periods involved, except as may be expressly stated in the related notes thereto. No other financial statements or supporting schedules are required to be included in the Registration Statement. The financial data set forth in the Prospectus under the captions "Summary--Summary Consolidated Financial Data," "Selected Consolidated Financial Data" and "Capitalization" fairly present the information set forth therein on a basis consistent with that of the audited financial statements contained in the Registration Statement. No pro forma financial information is required to be included in the Registration Statement pursuant to Regulation S-X.
- (m) Company's Accounting System. The Company and its subsidiary maintain a system of accounting controls sufficient to provide reasonable assurances that (i) transactions are executed in accordance with management's general or specific authorization; (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with generally accepted accounting principles and to maintain accountability for assets; (iii) access to assets is permitted only in accordance with management's general or specific authorization; and (iv) the recorded accountability for assets is compared with existing assets at reasonable intervals and appropriate action is taken with respect to any differences.

- (n) Subsidiaries of the Company. The Company does not own or control, directly or indirectly, any corporation, association or other entity other than Neurocrine Biosciences, Canada (its "subsidiary").
- (o) Incorporation and Good Standing of the Company and its Subsidiary. Each of the Company and its subsidiary has been duly organized and is validly existing as a corporation in good standing under the laws of the jurisdiction in which it is organized with full corporate power and authority to own its properties and conduct its business as described in the prospectus, and is duly qualified to do business as a foreign corporation and is in good standing under the laws of each jurisdiction which requires such qualification.
- (p) Capitalization of the Subsidiary. All the outstanding shares of capital stock of Neurocrine Biosciences, Canada have been duly and validly authorized and issued and are fully paid and nonassessable, and, except as otherwise set forth in the Prospectus, all outstanding shares of capital stock of Neurocrine Biosciences, Canada are owned by the Company directly free and clear of any security interests, claims, liens or encumbrances.
- (q) No Prohibition on Subsidiary from Paying Dividends or Making Other Distributions. Neurocrine Biosciences, Canada is not currently prohibited, directly or indirectly, from paying any dividends to the Company, from making any other distribution on its capital stock, from repaying to the Company any loans or advances to it from the Company or from transferring any of its property or assets to the Company or any other future subsidiary of the Company, except as described in or contemplated by the Prospectus.
- (r) Capitalization and Other Capital Stock Matters. The authorized, issued and outstanding capital stock of the Company is as set forth in the Prospectus under the caption "Capitalization" (other than for subsequent issuances, if any, pursuant to employee benefit plans described in the Prospectus or upon exercise of outstanding options or warrants described in the Prospectus). The Common Shares (including the Shares) conform in all material respects to the description thereof contained in the Prospectus. All of the issued and outstanding Common Shares have been duly authorized and validly issued, are fully paid and nonassessable and have been issued in compliance with federal and state securities laws. None of the outstanding Common Shares were issued in violation of any preemptive rights, rights of first refusal or other similar rights to subscribe for or purchase securities of the Company, except for such violations as, individually or in the aggregate, will not have a Material Adverse Effect. There are no authorized or outstanding options, warrants, preemptive rights, rights of first refusal or other rights to purchase, or equity or debt securities convertible into or exchangeable or exercisable for, any capital stock of the Company or its subsidiary other than those accurately described in the Prospectus.
- (s) Stock Exchange Listing. The Shares have been approved for inclusion in the Nasdaq National Market, subject only to official notice of issuance.
- (t) No Consents, Approvals or Authorizations Required. No consent, approval, authorization, filing with or order of any court or governmental agency or regulatory body is required in connection with the transactions contemplated herein, except such as have been obtained or made under the Securities Act and such as may

be required (i) under the blue sky laws of any jurisdiction in connection with the purchase and distribution of the Shares by the Underwriters in the manner contemplated here and in the Prospectus, (ii) by the National Association of Securities Dealers, Inc. (together with its regulatory subsidiary, NASD Regulation, Inc., the "NASD") and (iii) by the federal and provincial laws of Canada.

- (u) Non-Contravention of Existing Instruments and Agreements. Neither the issue and sale of the Shares nor the consummation of any other of the transactions herein contemplated nor the fulfillment of the terms hereof will conflict with, result in a breach or violation or imposition of any lien, charge or encumbrance upon any property or assets of the Company or its subsidiary pursuant to, (i) the charter or by-laws of the Company or its subsidiary, (ii) the terms of any indenture, contract, lease, mortgage, deed of trust, note agreement, loan agreement or other agreement, obligation, condition, covenant or instrument to which the Company or its subsidiary is a party or bound or to which its or their property is subject or (iii) any statute, law, rule, regulation, judgment, order or decree applicable to the Company or its subsidiary of any court, regulatory body, administrative agency, governmental body, arbitrator or other authority having jurisdiction over the Company or its subsidiary or any of its or their properties, except for such instances as would not, singly or in the aggregate, materially and adversely affect the Company's performance of this Agreement or result in a Material Adverse Change, except as otherwise disclosed in the Prospectus
- (v) No Defaults or Violations. Neither the Company nor its subsidiary is in violation or default of (i) any provision of its charter or by-laws, (ii) the terms of any indenture, contract, lease, mortgage, deed of trust, note agreement, loan agreement or other agreement, obligation, condition, covenant or instrument to which it is a party or bound or to which its property is subject or (iii) any statute, law, rule, regulation, judgment, order or decree of any court, regulatory body, administrative agency, governmental body, arbitrator or other authority having jurisdiction over the Company or such subsidiary or any of its properties, as applicable, except any such violation or default which would not, singly or in the aggregate, result in a Material Adverse Change except as otherwise disclosed in the Prospectus.
- (w) No Actions, Suits or Proceedings. No action, suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or its subsidiary or its or their property is pending or, to the best knowledge of the Company, threatened that (i) could reasonably be expected to have a Material Adverse Effect on the performance of this Agreement or the consummation of any of the transactions contemplated hereby or (ii) could reasonably be expected to result in a Material Adverse Effect.
- (x) All Necessary Permits, Etc. The Company and its subsidiary possess such valid and current certificates, authorizations or permits issued by the appropriate state, federal or foreign regulatory agencies or bodies necessary to conduct their respective businesses, and neither the Company nor its subsidiary has received any notice of proceedings relating to the revocation or modification of, or non-compliance with, any such certificate, authorization or permit which, singly or in the aggregate, if the subject of an unfavorable decision, ruling or finding, could result in a Material Adverse Change.

- (y) Title to Properties. The Company and its subsidiary have good and marketable title to all the properties and assets reflected as owned in the financial statements referred to in Section 1(i) above (or elsewhere in the Prospectus), in each case free and clear of any security interests, mortgages, liens, encumbrances, equities, claims and other defects, except such as do not materially and adversely affect the value of such property and do not materially interfere with the use made or proposed to be made of such property by the Company or its subsidiary. The real property, improvements, equipment and personal property held under lease by the Company or its subsidiary are held under valid and enforceable leases, with such exceptions as are not material and do not materially interfere with the use made or proposed to be made of such real property, improvements, equipment or personal property by the Company or its subsidiary.
- (z) Tax Law Compliance. The Company and its subsidiary have filed all necessary federal, state and foreign income and franchise tax returns or have properly requested extensions thereof and have paid all taxes required to be paid by any of them and, if due and payable, any related or similar assessment, fine or penalty levied against any of them, except as may be being contested in good faith and by appropriate proceedings. The Company has made adequate charges, accruals and reserves in the applicable financial statements referred to in Section 1(i) above in respect of all federal, state and foreign income and franchise taxes for all periods as to which the tax liability of the Company or its subsidiary has not been finally determined. The Company is not aware of any tax deficiency that has been or might be asserted or threatened against the Company that could result in a Material Adverse Change.
- (aa) Intellectual Property Rights. Except as otherwise disclosed in the Prospectus, (i) each of the Company and its subsidiary owns or possesses adequate rights to use all patents, patent rights or licenses, inventions, collaborative research agreements, trade secrets, know-how, trademarks, service marks, trade names and copyrights which are necessary to conduct its businesses as described in the Registration Statement and Prospectus; (ii) the expiration of any patents, patent rights, trade secrets, trademarks, service marks, trade names or copyrights would not result in a Material Adverse Change that is not otherwise disclosed in the Prospectus; (iii) the Company has not received any notice of, and has no knowledge of, any infringement of or conflict with asserted rights of the Company by others with respect to any patent, patent rights, inventions, trade secrets, know-how, trademarks, service marks, trade names or copyrights; (iv) the Company has not received any notice of, and has no knowledge of, any infringement of or conflict with asserted rights of others with respect to any patent, patent rights, inventions, trade secrets, know-how, trademarks, service marks, trade names or copyrights which, singly or in the aggregate, if the subject of an unfavorable decision, ruling or finding, might have a Material Adverse Change; (v) there is no claim pending or, to the Company's knowledge, threatened, against the Company regarding patents, patent rights or licenses, inventions, collaborative research, trade secrets, know-how, trademarks, service marks, trade names or copyrights; and (vi) to the Company's knowledge after reasonable inquiry, the Company and its subsidiary do not in the conduct of their business as now or proposed to be conducted as described in the Prospectus infringe or conflict with any right or patent of any third party, or any discovery, invention, product or process which is the subject of a patent application filed by any third party, which such infringement or conflict is reasonably likely to result in a Material Adverse Change.

- (bb) No Transfer Taxes or Other Fees. There are no transfer taxes or other similar fees or charges under Federal law or the laws of any state, or any political subdivision thereof, required to be paid in connection with the execution and delivery of this Agreement or the issuance and sale by the Company of the shares.
- (cc) Company Not an "Investment Company". The Company has been advised of the rules and requirements under the Investment Company Act of 1940, as amended (the "Investment Company Act"). The Company is not, and after receipt of payment for the Shares will not be, an "investment company" or an entity "controlled" by an "investment company" within the meaning of the Investment Company Act and will conduct its business in a manner so that it will not become subject to the Investment Company Act.
- (dd) Insurance. Each of the Company and its subsidiary is insured by recognized, financially sound and reputable institutions with policies in such amounts and with such deductibles and covering such risks as are generally deemed adequate and customary for their businesses including, but not limited to, policies covering real and personal property owned or leased by the Company and its subsidiary against theft, damage, destruction and acts of vandalism, general liability and Directors and Officers liability. The Company has no reason to believe that it or its subsidiary will not be able (i) to renew its existing insurance coverage as and when such policies expire or (ii) to obtain comparable coverage from similar institutions as may be necessary or appropriate to conduct its business as now conducted and at a cost that would not result in a Material Adverse Change. Neither of the Company nor its subsidiary has been denied any insurance coverage which it has sought or for which it has applied.
- (ee) Labor Matters. To the best of Company's knowledge, no labor disturbance by the employees of the Company or its subsidiary exists or is imminent; and the Company is not aware of any existing or imminent labor disturbance by the employees of any of its principal suppliers or any of the companies with which is has a strategic relationship, as described in the prospectus, which in each case would reasonably be expected to result in a Material Adverse Change.
- (ff) No Price Stabilization or Manipulation. The Company has not taken and will not take, directly or indirectly, any action designed to or that might be reasonably expected to cause or result in stabilization or manipulation of the price of the Common Stock to facilitate the sale or resale of the Shares.
- (gg) Lock-Up Agreements. Each officer and director of the company subject to Section 16 of the Exchange Act have signed or agreed to sign an agreement substantially in the form attached hereto as Exhibit A (the "Lock-up"

Agreements"). The Company has provided to counsel for the Underwriters a complete and accurate list of all securityholders of the Company and the number and type of securities held by each securityholder. The Company has provided to counsel for the Underwriters true, accurate and complete copies of all of the Lock-up Agreements presently in effect or effected hereby. The Company hereby represents and warrants and agrees that during the 90 days following the date of the Prospectus (the "Lock-Up Period"), the Company will not (i) release any of such officers or directors from any market stand-off agreements currently existing or hereafter effected or (ii) consent to the removal of any transfer-restrictive legend from any certificate representing any Common Shares held by any of them, in each case without the prior written consent of Robertson Stephens.

- (hh) Related Party Transactions. There are no business relationships or related-party transactions involving the Company or any subsidiary or any other person required to be described in the Prospectus which have not been described as required.
- (ii) No Unlawful Contributions or Other Payments. Neither the Company nor its subsidiary nor, to the best of the Company's knowledge, any employee or agent of the Company or its subsidiary, has made any contribution or other payment to any official of, or candidate for, any federal, state or foreign office in violation of any law or of the character required to be disclosed in the Prospectus.
- (jj) Environmental Laws. Except as otherwise disclosed in the Prospectus, (i) the Company is in compliance with all rules, laws and regulations relating to the use, treatment, storage and disposal of toxic substances and protection of health or the environment ("Environmental Laws") which are applicable to its business, except where the failure to comply would not result in a Material Adverse Change, (ii) the Company has received no notice from any governmental authority or third party of an asserted claim under Environmental Laws, which claim is required to be disclosed in the Registration Statement and the Prospectus, (iii) the Company is not currently aware that it will be required to make future material capital expenditures to comply with Environmental Laws and (iv) no property which is owned, leased or occupied by the Company has been designated as a Superfund site pursuant to the Comprehensive Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. (S) 9601, et

seq.), or otherwise designated as a contaminated site under applicable state or \hdots law.

(kk) ERISA Compliance. Except as otherwise disclosed in the Prospectus, the Company and its subsidiary and any "employee benefit plan" (as defined under the Employee Retirement Income Security Act of 1974, as amended, and the regulations and published interpretations thereunder (collectively, "ERISA")) established or maintained by the Company, its subsidiary or their "ERISA Affiliates" (as defined below) are in compliance in all material respects with ERISA. Affiliate" means, with respect to the Company or a subsidiary, any member of any group of organizations described in Sections 414(b), (c), (m) or (o) of the Internal Revenue Code of 1986, as amended, and the regulations and published interpretations thereunder (the "Code") of which the Company or such subsidiary is a member. No "reportable event" (as defined under ERISA) has occurred or is reasonably expected to occur with respect to any "employee benefit plan" established or maintained by the Company, its subsidiary or any of their ERISA Affiliates. No "employee benefit plan" established or maintained by the Company, its subsidiary or any of their ERISA Affiliates, if such "employee benefit plan" were terminated, would have any "amount of unfunded benefit liabilities" (as defined under ERISA). Neither the Company, its subsidiary nor any of their ERISA Affiliates has incurred or reasonably expects to incur any liability under (i) Title IV of ERISA with respect to termination of, or withdrawal from, any "employee benefit plan" or (ii) Sections 412, 4971, 4975 or 4980B of the Code. Each "employee benefit plan" established or maintained by the Company, its subsidiary or any of their ERISA Affiliates that is intended to be qualified under Section 401(a) of the Code is so qualified and nothing has occurred, whether by action or failure to act, which would cause the loss of such qualification.

Any certificate signed by an officer of the Company and delivered to the Representatives or to counsel for the Underwriters shall be deemed to be a

representation and warranty by the Company to each Underwriter as to the matters set forth therein.

Section 2. Purchase, Sale and Delivery of the Shares.

(a) The Firm Shares. The Company agrees to issue and sell to the several Underwriters the Firm Shares upon the terms herein set forth. On the basis of the representations, warranties and agreements herein contained, and upon the terms but subject to the conditions herein set forth, the Underwriters agree, severally and not jointly, to purchase from the Company the respective number of Firm Shares set forth opposite their names on Schedule A. The purchase price

per Firm Share to be paid by the several Underwriters to the Company shall be $[__]$ per share.

(b) The First Closing Date. Delivery of the Firm Shares to be purchased by the Underwriters and payment therefor shall be made by the Company and the Representatives at 6:00 a.m. San Francisco time, at the offices of Latham & Watkins, San Francisco, California (or at such other place and time as may be agreed upon among the Representatives and the Company), (i) on the third (3rd) full business day following the first day that Shares are traded, (ii) if this Agreement is executed and delivered after 1:30 P.M., San Francisco time, the fourth (4th) full business day following the day that this Agreement is executed and delivered or (iii) at such other time and date not later than seven (7) full business days following the first day that Shares are traded as the Representatives and the Company may determine (or at such time and date to which payment and delivery shall have been postponed pursuant to Section 8 hereof), such time and date of payment and delivery being herein called the "First Closing Date"; provided, however, that if the Company has not made available to

the Representatives copies of the Prospectus within the time provided in Section 2(g) and 3(e) hereof, the Representatives may, in their sole discretion, postpone the First Closing Date until no later that two (2) full business days following delivery of copies of the Prospectus to the Representatives.

(c) The Option Shares; the Second Closing Date. In addition, on the basis of the representations, warranties and agreements herein contained, and upon the terms but subject to the conditions herein set forth, the Company hereby grants an option to the several Underwriters to purchase, severally and not jointly, up to an aggregate of 450,000 Option Shares from the Company at the purchase price per share to be paid by the Underwriters for the Firm Shares. The option granted hereunder is for use by the Underwriters solely in covering any overallotments in connection with the sale and distribution of the Firm Shares. The option granted hereunder may be exercised at any time upon notice by the Representatives to the Company, which notice may be given at any time within 30 days from the date of this Agreement. The time and date of delivery of the Option Shares, if subsequent to the First Closing Date, is called the "Second Closing Date" and shall be determined by the Representatives and shall not be earlier than three nor later than five full business days after delivery of such notice of exercise. If any Option Shares are to be purchased, each Underwriter agrees, severally and not jointly, to purchase the number of Option Shares (subject to such adjustments to eliminate fractional shares as the Representatives may determine) that bears the same proportion to the total number of Option Shares to be purchased as the number of Firm Shares set forth on Schedule A opposite the name of such Underwriter bears to the total

number of Firm Shares. The Representatives may cancel the option at any time prior to its expiration by giving written notice of such cancellation to the Company.

- (d) Public Offering of the Shares. The Representatives hereby advise the Company that the Underwriters intend to offer for sale to the public, as described in the Prospectus, their respective portions of the Shares as soon after this Agreement has been executed and the Registration Statement has been declared effective as the Representatives, in their sole judgment, have determined is advisable and practicable.
- (e) Payment for the Shares. Payment for the Shares shall be made at the First Closing Date (and, if applicable, at the Second Closing Date) by wire transfer in immediately available-funds to the order of the Company.

It is understood that the Representatives have been authorized, for their own accounts and the accounts of the several Underwriters, to accept delivery of and receipt for, and make payment of the purchase price for, the Firm Shares and any Option Shares the Underwriters have agreed to purchase. Robertson Stephens, individually and not as a Representative of the Underwriters, may (but shall not be obligated to) make payment for any Shares to be purchased by any Underwriter whose funds shall not have been received by the Representatives by the First Closing Date or the Second Closing Date, as the case may be, for the account of such Underwriter, but any such payment shall not relieve such Underwriter from any of its obligations under this Agreement.

- (f) Delivery of the Shares. The Company shall deliver, or cause to be delivered, a credit representing the Firm Shares to an account or accounts at The Depository Trust Company, as designated by the Representatives, for the accounts of the Representatives and the several Underwriters at the First Closing Date, against the irrevocable release of a wire transfer of immediately available funds for the amount of the purchase price therefor. The Company shall also deliver, or cause to be delivered a credit representing the Option Shares the Underwriters have agreed to purchase at the First Closing Date (or the Second Closing Date, as the case may be), to an account or accounts at The Depository Trust Company as designated by the Representatives for the accounts of the Representatives and the several Underwriters, against the irrevocable release of a wire transfer of immediately available funds for the amount of the purchase price therefor. Time shall be of the essence, and delivery at the time and place specified in this Agreement is a further condition to the obligations of the Underwriters.
- (g) Delivery of Prospectus to the Underwriters. Not later than 12:00 noon on the second business day following the date the Shares are released by the Underwriters for sale to the public, the Company shall deliver or cause to be delivered copies of the Prospectus in such quantities and at such places as the Representatives shall reasonably request.
 - Section 3. Covenants of the Company.

The Company further covenants and agrees with each Underwriter as follows:

(a) Registration Statement Matters. The Company will (i) use its best efforts to cause the Registration Statement to become effective or, if the procedure in Rule

430A of the Securities Act is followed, to prepare and timely file with the Commission under Rule 424(b) under the Securities Act a Prospectus in a form approved by the Representatives containing information previously omitted at the time of effectiveness of the Registration Statement in reliance on Rule 430A of the Securities Act and (ii) not file any amendment to the Registration Statement or supplement to the Prospectus of which the Representatives shall not previously have been advised and furnished with a copy or to which the Representatives shall have reasonably objected in writing or which is not in compliance with the Securities Act. If the Company elects to rely on Rule 462(b) under the Securities Act, the Company shall file a Rule 462(b) Registration Statement with the Commission in compliance with Rule 462(b) under the Securities Act prior to the time confirmations are sent or given, as specified by Rule 462(b)(2) under the Securities Act, and shall pay the applicable fees in accordance with Rule 111 under the Securities Act.

- (b) Securities Act Compliance. The Company will advise the Representatives promptly (i) when the Registration Statement or any post-effective amendment thereto shall have become effective, (ii) of receipt of any comments from the Commission, (iii) of any request of the Commission for amendment of the Registration Statement or for supplement to the Prospectus or for any additional information and (iv) of the issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement or the use of the Prospectus or of the institution of any proceedings for that purpose. The Company will use its best efforts to prevent the issuance of any such stop order preventing or suspending the use of the Prospectus and to obtain as soon as possible the lifting thereof, if issued.
- (c) Blue Sky Compliance. The Company will cooperate with the Representatives and counsel for the Underwriters in endeavoring to qualify the Shares for sale under the securities laws of such jurisdictions (both national and foreign) as the Representatives may reasonably have designated in writing and will make such applications, file such documents, and furnish such information as may be reasonably required for that purpose, provided the Company shall not be required

to qualify as a foreign corporation or to file a general consent to service of process in any jurisdiction where it is not now so qualified or required to file such a consent. The Company will, from time to time, prepare and file such statements, reports and other documents, as are or may be required to continue such qualifications in effect for so long a period as the Representatives may reasonably request for distribution of the Shares.

(d) Amendments and Supplements to the Prospectus and Other Securities Act Matters. The Company will comply with the Securities Act and the Exchange Act, and the rules and regulations of the Commission thereunder, so as to permit the completion of the distribution of the Shares as contemplated in this Agreement and the Prospectus. If during the period in which a prospectus is required by law to be delivered by an Underwriter or dealer, any event shall occur as a result of which, in the judgment of the Company or in the reasonable opinion of the Representatives or counsel for the Underwriters, it becomes necessary to amend or supplement the Prospectus in order to make the statements therein, in the light of the circumstances existing at the time the Prospectus is delivered to a purchaser, not misleading, or, if it is necessary at any time to amend or supplement the Prospectus to comply with any law, the Company promptly will prepare and file with the Commission, and furnish at its own expense to the Underwriters and to dealers, an appropriate amendment to the Registration Statement or supplement to the Prospectus so that the Prospectus as so amended or supplemented

will not, in the light of the circumstances when it is so delivered, be misleading, or so that the Prospectus will comply with the law.

- (e) Copies of the Prospectus, Electronic Prospectus and any Amendments and Supplements Thereto. The Company agrees to furnish the Representatives, without charge, during the period beginning on the date hereof and ending on the later of the First Closing Date or such date, as in the opinion of counsel for the Underwriters, the Prospectus is no longer required by law to be delivered in connection with sales by an Underwriter or dealer (the "Prospectus Delivery Period"), as many copies of the Prospectus and any amendments and supplements thereto as the Representatives may request. The Company shall also cause to be prepared and delivered to any Underwriter upon request, at the Company's expense, within one business day from the filing of the Prospectus with the Commission (and again within one business day after the filing of any amendment or supplement thereto with the Commission), an "electronic Prospectus" to be used in connection with the offering and sale of the Common Shares. As used herein, the term "electronic Prospectus" means a form of Prospectus, and any amendment or supplement thereto, that meets each of the following conditions: (i) it shall be encoded in a format, satisfactory to the Representatives, that may be transmitted electronically over the internet or via other online distribution to offerees and purchasers of the Common Shares; and (ii) it shall disclose the same information as the paper Prospectus (or any amendment or supplement thereto), except to the extent that graphic and image material contained in the paper Prospectus (or such amendment or supplement) cannot be presented in such electronic format, in which case such graphic and image material shall be replaced in the electronic Prospectus with a fair and accurate narrative description or tabular representation of such material, as appropriate. The Company hereby consents to distribution of the electronic Prospectus (including posting of the electronic Prospectus on the internet) by any of the Underwriters or their affiliates.
- (f) Insurance. The Company currently maintains, and shall continue to maintain through the earlier of the Second Closing Date or the expiration of the over-allotment option, Directors and Officers liability insurance in the minimum amount of \$10 million which shall apply to the offering contemplated hereby and the Company shall use good faith efforts to cause Robertson Stephens, Inc. to be added to such policy such that up to \$500,000 of its expenses pursuant to Section 7(a) would be paid directly by such insurer.
- (g) Use of Proceeds. The Company shall apply the net proceeds from the sale of the Shares sold by it in the manner described under the caption "Use of Proceeds" in the Prospectus.
- (h) Transfer Agent. The Company shall engage and maintain, at its expense, a registrar and transfer agent for the Company Shares.
- (i) Earnings Statement. As soon as practicable, the Company will make generally available to its security holders and to the Representatives an earnings statement (which need not be audited) covering a period of at least twelve months beginning after the effective date of the Registration Statement that satisfies the provisions of Section 11(a) of the Securities Act.
- (j) Periodic Reporting Obligations. During the Prospectus Delivery Period the Company shall file, on a timely basis, with the Commission and the Nasdaq National

Market all reports and documents required to be filed under the Exchange Act within the time periods required by the Exchange Act and the rules of the Nasdaq National Market.

(k) Agreement Not to Offer or Sell Additional Securities. The Company will not offer, sell or contract to sell, or otherwise dispose of or enter into any transaction which is designed to, or could be expected to, result in the disposition (whether by actual disposition or effective economic disposition due to cash settlement or otherwise by the Company or any affiliate of the Company or any person in privity with the Company or any affiliate of the Company) directly or indirectly, or announce the offering of, any other Common Shares or any securities convertible into, or exchangeable for, Common Shares; provided,

however, that the Company may (i) issue and sell Common Shares pursuant to any

director or employee stock option plan, stock ownership plan or dividend reinvestment plan of the Company in effect at the date of the Prospectus and described in the Prospectus so long as none of those shares may be transferred and the Company shall enter stop transfer instructions with its transfer agent and registrar against the transfer of any such Common Shares and (ii) the Company may issue Common Shares issuable upon the conversion of securities or the exercise of warrants outstanding at the date of the Prospectus and described in the Prospectus. These restrictions shall terminate after the close of trading of the Shares on the final day of the Lock-Up Period.

Section 4. Conditions of the Obligations of the Underwriters.

The obligations of the several Underwriters to purchase and pay for the Shares as provided herein on the First Closing Date and, with respect to the Option Shares, the Second Closing Date, shall be subject to the accuracy of the representations and warranties on the part of the Company set forth in Section 1 hereof as of the date hereof and as of the First Closing Date as though then made and, with respect to the Option Shares, as of the Second Closing Date as though then made, to the timely performance by the Company of its covenants and other obligations hereunder, and to each of the following additional conditions:

- (a) Compliance with Registration Requirements; No Stop Order; No Objection from the NASD. The Registration Statement shall have become effective prior to the execution of this Agreement, or at such later date as shall be consented to in writing by you; and no stop order suspending the effectiveness thereof shall have been issued and no proceedings for that purpose shall have been initiated or, to the knowledge of the Company or any Underwriter, threatened by the Commission, and any request of the Commission for additional information (to be included in the Registration Statement or the Prospectus or otherwise) shall have been complied with to the satisfaction of Underwriters' Counsel; and the NASD shall have raised no objection to the fairness and reasonableness of the underwriting terms and arrangements.
- (b) Corporate Proceedings. All corporate proceedings and other legal matters in connection with this Agreement, the form of Registration Statement and the Prospectus, and the registration, authorization, issue, sale and delivery of the Shares, shall have been reasonably satisfactory to Underwriters' Counsel, and such counsel shall have been furnished with such papers and information as they may reasonably have requested to enable them to pass upon the matters referred to in this Section.
- (c) No Material Adverse Change. Subsequent to the execution and delivery of this Agreement and prior to the First Closing Date, or the Second Closing Date, as the $\,$

case may be, there shall not have been any Material Adverse Change in the condition (financial or otherwise), earnings, operations, business or business prospects of the Company and its subsidiary considered as one enterprise from that set forth in the Registration Statement or Prospectus that makes it, in your reasonable judgment, impracticable or inadvisable to proceed with the public offering of the Shares as contemplated by the Prospectus.

(d) Opinion of Counsel for the Company. You shall have received on the First Closing Date, or the Second Closing Date, as the case may be, an opinion of Latham & Watkins, counsel for the Company, substantially in the form of Exhibit

B attached hereto, dated the First Closing Date, or the Second Closing Date,

addressed to the Underwriters and with reproduced copies or signed counterparts thereof for each of the Underwriters.

Counsel rendering the opinion contained in Exhibit B may rely as to questions of law not involving the laws of the United States or the States of California or New York or the General Corporation Law of the State of Delaware upon opinions of local counsel, and as to questions of fact upon representations or certificates of officers of the Company and of government officials, in which case their opinion is to state that they are so relying and that they have no knowledge of any material misstatement or inaccuracy in any such opinion, representation or certificate. Copies of any opinion, representation or certificate so relied upon shall be delivered to you, as Representatives of the Underwriters, and to Underwriters' Counsel.

- (e) Opinion of Internal Counsel for the Company. You shall have received on the First Closing Date, or the Second Closing Date, as the case may be, an opinion of Margaret Valeur-Jensen, internal counsel for the Company, substantially in the form of Exhibit C attached hereto, dated the First Closing
- Date, or the Second Closing Date, addressed to the Underwriters and with reproduced copies or signed counterparts thereof for each of the Underwriters.
- (f) Opinion of Intellectual Property Counsel for the Company. You shall have received on the First Closing Date, or the Second Closing Date, as the case may be, an opinion of Seed Intellectual Property Law Group, PLLC, intellectual property counsel for the Company, substantially in the form of Exhibit D

attached hereto, dated the First Closing Date, or the Second Closing Date, addressed to the Underwriters and with reproduced copies or signed counterparts thereof for each of the Underwriters.

- (g) Opinion of Counsel for the Underwriters. You shall have received on the First Closing Date or the Second Closing Date, as the case may be, an opinion of O'Melveny & Myers LLP, counsel for the Underwriters, in form and substance reasonably satisfactory to the Representatives, with respect to the sufficiency of all corporate proceedings and other legal matters relating to this Agreement and the transactions contemplated hereby as the Representatives may reasonably require. The Company shall have furnished to such counsel such documents as they may have reasonably requested for the purpose of enabling them to pass upon such matters.
- (h) Accountants' Comfort Letter. You shall have received on the First Closing Date and on the Second Closing Date, as the case may be, a letter from Ernst & Young LLP addressed to the Underwriters, dated the First Closing Date or the Second Closing Date, as the case may be, confirming that they are independent certified public

accountants with respect to the Company within the meaning of the Act and the applicable published Rules and Regulations and based upon the procedures described in such letter delivered to you concurrently with the execution of this Agreement (herein called the "Original Letter"), but carried out to a date not more than four (4) business days prior to the First Closing Date or the Second Closing Date, as the case may be, (i) confirming, to the extent true, that the statements and conclusions set forth in the Original Letter are accurate as of the First Closing Date or the Second Closing Date, as the case may be, and (ii) setting forth any revisions and additions to the statements and conclusions set forth in the Original Letter which are necessary to reflect any changes in the facts described in the Original Letter since the date of such letter, or to reflect the availability of more recent financial statements, data or information. The letter shall not disclose any change in the condition (financial or otherwise), earnings, operations, business or business prospects of the Company and its subsidiary considered as one enterprise from that set forth in the Registration Statement or Prospectus, which, in your sole judgment, is material and adverse and that makes it, in your sole judgment, impracticable or inadvisable to proceed with the public offering of the Shares as contemplated by the Prospectus. The Original Letter from Ernst & Young LLP shall be addressed to or for the use of the Underwriters in form and substance satisfactory to the Underwriters and shall (i) represent, to the extent true, that they are independent certified public accountants with respect to the Company within the meaning of the Act and the applicable published Rules and Regulations, (ii) refer to their opinion with respect to their examination of the consolidated balance sheet of the Company as of December 31, 1999 and 1998 and related consolidated statements of operations, shareholders' equity, and cash flows for the twelve (12) months ended December 31, 1999, 1998 and 1997, incorporated by reference in the Registration Statement, (iii) state that Ernst & Young LLP has performed the procedures set out in Statement on Auditing Standards ("SAS") No. 71 for a review of interim financial information and providing the report of Ernst & Young LLP as described in SAS No. 71 on the financial statements for each of the quarters in the three quarter period ended September 30, 2000 (the "Quarterly Financial Statements"), incorporated by reference in the Registration Statement, (iv) state that in the course of such review, nothing came to their attention that leads them to believe that any material modifications need to be made to any of the Quarterly Financial Statements in order for them to be in compliance with generally accepted accounting principles consistently applied across the periods presented, and (v) address other matters agreed upon by Ernst & Young LLP and you. In addition, you shall have received from Ernst & Young LLP a letter addressed to the Company and made available to you for the use of the Underwriters stating that their review of the Company's system of internal accounting controls, to the extent they deemed necessary in establishing the scope of their examination of the Company's consolidated financial statements as of December 31, 1999, did not disclose any weaknesses in internal controls that they considered to be material weaknesses.

- (i) Officers' Certificate. You shall have received on the First Closing Date and the Second Closing Date, as the case may be, a certificate of the Company, dated the First Closing Date or the Second Closing Date, as the case may be, signed by the Chief Executive Officer and Chief Financial Officer of the Company, to the effect that, and you shall be satisfied that:
 - (i) The representations and warranties of the Company in this Agreement are true and correct, as if made on and as of the First Closing Date or the Second Closing Date, as the case may be, and the Company has complied

with all the agreements and satisfied all the conditions on its part to be performed or satisfied at or prior to the First Closing Date or the Second Closing Date, as the case may be;

- (ii) No stop order suspending the effectiveness of the Registration Statement has been issued and no proceedings for that purpose have been instituted or are pending or, to the Company's knowledge, threatened under the Securities Act;
- (iii) When the Registration Statement became effective and at all times subsequent thereto up to the delivery of such certificate, (a) the Registration Statement and the Prospectus, and any amendments or supplements thereto, contained all material information required to be included therein by the Securities Act and in all material respects conformed to the requirements of the Securities Act, (b) the Registration Statement and the Prospectus, and any amendments or supplements thereto, did not and do not include any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading; and (c) since the effective date of the Registration Statement, there has occurred no event required to be set forth in an amended or supplemented Prospectus which has not been so set forth; and
- (iv) Subsequent to the respective dates as of which information is given in the Registration Statement and Prospectus and through the date of such certificate, there has not been (a) any material adverse change in the condition (financial or otherwise), earnings, operations, business or business prospects of the Company and its subsidiary considered as one enterprise, (b) any transaction that is material to the Company and its subsidiary considered as one enterprise, except transactions entered into in the ordinary course of business, (c) any obligation, direct or contingent, that is material to the Company and its subsidiary considered as one enterprise, incurred by the Company or its subsidiary, except obligations incurred in the ordinary course of business, (d) any change in the capital stock or outstanding indebtedness of the Company or its subsidiary that is material to the Company and its subsidiary considered as one enterprise, (e) any dividend or distribution of any kind declared, paid or made on the capital stock of the Company or its subsidiary, or (f) any loss or damage (whether or not insured) to the property of the Company or its subsidiary which has been sustained or will have been sustained which has a material adverse effect on the condition (financial or otherwise), earnings, operations, business or business prospects of the Company and its subsidiary considered as one enterprise.
- (j) Lock-Up Agreement from Certain Stockholders of the Company. The Company shall have obtained and delivered the Lock-Up Agreements to you.
- (k) Stock Exchange Listing. The Shares shall have been approved for inclusion on the Nasdaq National Market, subject only to official notice of issuance.
- (1) Compliance with Prospectus Delivery Requirements. The Company shall have complied with the provisions of Sections 2(g) and 3(e) hereof with respect to the furnishing of Prospectuses.

(m) Additional Documents. On or before each of the First Closing Date and the Second Closing Date, as the case may be, the Representatives and counsel for the Underwriters shall have received such information, documents and opinions as they may reasonably require for the purposes of enabling them to pass upon the issuance and sale of the Shares as contemplated herein, or in order to evidence the accuracy of any of the representations and warranties, or the satisfaction of any of the conditions or agreements, herein contained.

If any condition specified in this Section 4 is not satisfied when and as required to be satisfied, this Agreement may be terminated by the Representatives by notice to the Company at any time on or prior to the First Closing Date and, with respect to the Option Shares, at any time prior to the Second Closing Date, which termination shall be without liability on the part of any party to any other party, except that Section 5 (Payment of Expenses), Section 6 (Reimbursement of Underwriters' Expenses), Section 7 (Indemnification and Contribution) and Section 10 (Representations and Indemnities to Survive Delivery) shall at all times be effective and shall survive such termination.

Section 5. Payment of Expenses.

The Company agrees to pay all costs, fees and expenses incurred in connection with the performance of its obligations hereunder and in connection with the transactions contemplated hereby, including without limitation (i) all expenses incident to the issuance and delivery of the Shares (including all printing and engraving costs), (ii) all fees and expenses of the registrar and transfer agent of the Common Shares, (iii) all necessary issue, transfer and other stamp taxes in connection with the issuance and sale of the Shares to the Underwriters, (iv) all fees and expenses of the Company's counsel and independent public or certified public accountants, (v) all costs and expenses incurred in connection with the preparation, printing, filing, shipping and distribution of the Registration Statement (including financial statements, exhibits, schedules, consents and certificates of experts), each preliminary prospectus and the Prospectus, and all amendments and supplements thereto, and this Agreement, (vi) all filing fees, attorneys' fees and expenses incurred by the Company or the Underwriters in connection with qualifying or registering (or obtaining exemptions from the qualification or registration of) all or any part of the Shares for offer and sale under the state securities or blue sky laws or the provincial securities laws of Canada or any other country, and, if requested by the Representatives, preparing and printing a "Blue Sky Survey," an "International Blue Sky Survey" or other memorandum, and any supplements thereto, advising the Underwriters of such qualifications, registrations and exemptions, (vii) the filing fees incident to, and the reasonable fees and expenses of counsel for the Underwriters in connection with, the NASD review and approval of the Underwriters' participation in the offering and distribution of the Common Shares, (viii) the fees and expenses associated with including the Shares in the Nasdaq National Market, (ix) all costs and expenses incident to the travel and accommodation of the Company's employees on the "roadshow," and (x) all other fees, costs and expenses referred to in Item 13 of Part II of the Registration Statement. Except as provided in this Section 5, Section 6, and Section 7 hereof, the Underwriters shall pay their own expenses, including the fees and disbursements of their counsel.

Section 6. Reimbursement of Underwriters' Expenses.

If this Agreement is terminated by the Representatives pursuant to Section 4 or Section 9, or if the sale to the Underwriters of the Shares on the First Closing Date is not consummated because of any refusal, inability or failure on the part of the Company to perform any agreement herein or to comply with any provision hereof, the Company agrees to reimburse the Representatives and the other Underwriters (or such Underwriters as have terminated this Agreement with respect to themselves), severally, upon demand for all out-of-pocket expenses that shall have been reasonably incurred by the Representatives and the Underwriters in connection with the proposed purchase and the offering and sale of the Shares, including but not limited to fees and disbursements of counsel, printing expenses, travel and accommodation expenses, postage, facsimile and telephone charges.

Section 7. Indemnification and Contribution.

(a) Indemnification of the Underwriters. The Company agrees to indemnify and hold harmless each Underwriter, its officers and employees, and each person, if any, who controls any Underwriter within the meaning of the Securities Act and the Exchange Act against any loss, claim, damage, liability or expense, as incurred, to which such Underwriter or such controlling person may become subject, under the Securities Act, the Exchange Act or other federal or state statutory law or regulation, or at common law or otherwise (including in settlement of any litigation, if such settlement is effected with the written consent of the Company, which consent shall not be unreasonably withheld), insofar as such loss, claim, damage, liability or expense (or actions in respect thereof as contemplated below) arises out of or is based (i) upon any untrue statement or alleged untrue statement of a material fact contained in the Registration Statement, or any amendment thereto, including any information deemed to be a part thereof pursuant to Rule 430A under the Securities Act, or the omission or alleged omission therefrom of a material fact required to be stated therein or necessary to make the statements therein not misleading; or (ii) upon any untrue statement or alleged untrue statement of a material fact contained in any preliminary prospectus or the Prospectus (or any amendment or supplement thereto), or the omission or alleged omission therefrom of a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading; or (iii) in whole or in part upon any inaccuracy in the representations and warranties of the Company contained herein; or (iv) in whole or in part upon any failure of the Company to perform its obligations hereunder or under law; or (v) any untrue statement or alleged untrue statement of any material fact contained in any audio or visual materials provided by the Company or based upon written information furnished by or on behalf of the Company including, without limitation, slides, videos, films or tape recordings, used in connection with the marketing of the Shares, provided that the Company authorizes in writing the use of any such audio or visual materials or of such written information (and the Company hereby authorizes in writing the audio-visual information presented to investors on the so-called "roadshow"); or (vi) any act or failure to act or any alleged act or failure to act by any Underwriter in connection with, or relating in any manner to, the Shares or the offering contemplated hereby, and which is included as part of or referred to in any loss, claim, damage, liability or action arising out of or based upon any matter covered by clause (i), (ii), (iii) (iv) or (v) above, provided that the Company shall not be liable under this clause (vi) to

the extent that a court of competent jurisdiction shall have

determined by a final judgment that such loss, claim, damage, liability or action resulted directly from any such acts or failures to act undertaken or omitted to be taken by such Underwriter through its bad faith or willful misconduct; and to reimburse each Underwriter and each such controlling person for any and all expenses (including the reasonable fees and disbursements of one counsel (and, if necessary, one local counsel) chosen by Robertson Stephens) as such expenses are reasonably incurred by such Underwriter or such controlling person in connection with investigating, defending, settling, compromising or paying any such loss, claim, damage, liability, expense or action; provided,

however, that the foregoing indemnity agreement shall not apply to any loss,

claim, damage, liability or expense to the extent, but only to the extent, that such loss, claim, damage, liability or expense arises out of or is based upon any untrue statement or alleged untrue statement or omission or alleged omission made in reliance upon and in conformity with written information furnished to the Company by the Representatives expressly for use in the Registration Statement, any preliminary prospectus or the Prospectus (or any amendment or supplement thereto); and provided, further, that with respect to any preliminary

prospectus, the foregoing indemnity agreement shall not inure to the benefit of any Underwriter from whom the person asserting any loss, claim, damage, liability or expense purchased Shares, or any person controlling such Underwriter, if copies of the Prospectus were timely delivered to the Underwriter pursuant to Section 2 and a copy of the Prospectus (as then amended or supplemented if the Company shall have furnished any amendments or supplements thereto) was not sent or given by or on behalf of such Underwriter to such person, if required by law so to have been delivered, and if the Prospectus (as so amended or supplemented) would have cured the defect giving rise to such loss, claim, damage, liability or expense. The indemnity agreement set forth in this Section 7(a) shall be in addition to any liabilities that the Company may otherwise have.

(b) Indemnification of the Company, its Directors and Officers. Each Underwriter agrees, severally and not jointly, to indemnify and hold harmless the Company, each of its directors, each of its officers who signed the Registration Statement and each person, if any, who controls the Company within the meaning of the Securities Act or the Exchange Act, against any loss, claim, damage, liability or expense, as incurred, to which the Company, or any such director, officer or controlling person may become subject, under the Securities Act, the Exchange Act, or other federal or state statutory law or regulation, or at common law or otherwise (including in settlement of any litigation, if such settlement is effected with the written consent of such Underwriter), insofar as such loss, claim, damage, liability or expense (or actions in respect thereof as contemplated below) arises out of or is based upon any untrue or alleged untrue statement of a material fact contained in the Registration Statement, any preliminary prospectus or the Prospectus (or any amendment or supplement thereto), or arises out of or is based upon the omission or alleged omission to $% \left(1\right) =\left(1\right) \left(1\right) \left$ state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, in each case to the extent, but only to the extent, that such untrue statement or alleged untrue statement or omission or alleged omission was made in the Registration Statement, any preliminary prospectus, the Prospectus (or any amendment or supplement thereto), in reliance upon and in conformity with written information furnished to the Company by the Representatives expressly for use therein; and to reimburse the Company, or any such director, officer or controlling person for any legal and other expense reasonably incurred by the Company, or any such director, officer or controlling person in connection with investigating, defending, settling, compromising or paying any such loss, claim, damage, liability, expense or action. The indemnity

agreement set forth in this Section 7(b) shall be in addition to any liabilities that each Underwriter may otherwise have.

- (c) Information Provided by the Underwriters. The Company and each person, if any, who controls the Company within the meaning of the Securities Act or the Exchange Act, hereby acknowledges that the only information that the Underwriters have furnished to the Company expressly for use in the Registration Statement, any preliminary prospectus or the Prospectus (or any amendment or supplement thereto) are the statements set forth in the Prospectus under the caption "Underwriting" as follows: (i) in the table in the first paragraph, (ii) in the third paragraph (regarding the delivery date) and (iii) in the first, second and third sentences of the subsection titled "Dealers' compensation"; and the Underwriters confirm that such statements are correct.
- (d) Notifications and Other Indemnification Procedures. Promptly after receipt by an indemnified party under this Section 7 of notice of the commencement of any action, such indemnified party will, if a claim in respect thereof is to be made against an indemnifying party under this Section 7, notify the indemnifying party in writing of the commencement thereof, but the omission so to notify the indemnifying party shall not relieve it from any liability hereunder to the extent it is not materially prejudiced as a proximate result of such failure and in any event shall not relieve it from any liability which it may have otherwise than on account of this indemnity agreement. In case any such action is brought against any indemnified party and such indemnified party seeks or intends to seek indemnity from an indemnifying party, the indemnifying party will be entitled to participate in, and, to the extent that it shall elect, jointly with all other indemnifying parties similarly notified, by written notice delivered to the indemnified party promptly after receiving the aforesaid notice from such indemnified party, to assume the defense thereof with counsel reasonably satisfactory to such indemnified party; provided, however, if

the defendants in any such action include both the indemnified party and the indemnifying party and the indemnified party shall have reasonably concluded that a conflict may arise between the positions of the indemnifying party and the indemnified party in conducting the defense of any such action or that there may be legal defenses available to it and/or other indemnified parties which are different from or additional to those available to the indemnifying party, the indemnified party or parties shall have the right to select separate counsel to assume such legal defenses and to otherwise participate in the defense of such action on behalf of such indemnified party or parties. Upon receipt of notice from the indemnifying party to such indemnified party of such indemnifying party's election so to assume the defense of such action and approval by the indemnified party of counsel, the indemnifying party will not be liable to such indemnified party under this Section 7 for any legal or other expenses subsequently incurred by such indemnified party in connection with the defense thereof unless (i) the indemnified party shall have employed separate counsel in accordance with the proviso to the next preceding sentence (it being understood, however, that the indemnifying party shall not be liable for the reasonable expenses of more than one separate counsel (together with one local counsel), approved by the indemnifying party (Robertson Stephens in the case of Section 7(b) and Section 8), representing the indemnified parties who are parties to such action), (ii) the indemnifying party shall not have employed counsel satisfactory to the indemnified party to represent the indemnified party within a reasonable time after notice of commencement of the action, or (iii) the indemnifying party has authorized the employment of counsel for the indemnified party at the expense of the indemnifying party, in each of which cases the fees and expenses of counsel shall be at the expense of the indemnifying party.

- (e) Settlements. The indemnifying party under this Section 7 shall not be liable for any settlement of any proceeding effected without its written consent, which consent shall not be unreasonably withheld, but if settled with such consent or if there be a final judgment for the plaintiff, the indemnifying party agrees to indemnify the indemnified party against any loss, claim, damage, liability or expense by reason of such settlement or judgment. Notwithstanding the foregoing sentence, if at any time an indemnified party shall have requested an indemnifying party to reimburse the indemnified party for fees and expenses of counsel as contemplated by Section 7(d) hereof, the indemnifying party agrees that it shall be liable for any settlement of any proceeding effected without its written consent if (i) such settlement is entered into more than 60 days after receipt by such indemnifying party of the aforesaid request and (ii) such indemnifying party shall not have reimbursed the indemnified party in accordance with such request prior to the date of such settlement. No indemnifying party shall, without the prior written consent of the indemnified party, effect any settlement, compromise or consent to the entry of judgment in any pending or threatened action, suit or proceeding in respect of which any indemnified party is or could have been a party and indemnity was or could have been sought hereunder by such indemnified party, unless such settlement, compromise or consent includes (i) an unconditional release of such indemnified party from all liability on claims that are the subject matter of such action, suit or proceeding and (ii) does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.
- (f) Contribution. If the indemnification provided for in this Section 7 is unavailable to or insufficient to hold harmless an indemnified party under Section 7(a) or (b) above in respect of any losses, claims, damages or liabilities (or actions or proceedings in respect thereof) then each indemnifying party shall contribute to the aggregate amount paid or payable by such indemnified party in such proportion as is appropriate to reflect the relative benefits received by the Company on the one hand and the Underwriters on the other from the offering of the Shares. If, however, the allocation provided by the immediately preceding sentence is not permitted by applicable law then each indemnifying party shall contribute to such amount paid or payable by such indemnified party in such proportion as is appropriate to reflect not only such relative benefits but also the relative fault of the Company on the one hand and the Underwriters on the other in connection with the statements or omissions which resulted in such losses, claims, damages or liabilities, (or actions or proceedings in respect thereof), as well as any other relevant equitable considerations. The relative benefits received by the Company on the one hand, and the Underwriters on the other shall be deemed to be in the same proportion as the total net proceeds (before deducting expenses) received by the Company from the sale of the Shares sold by it in the offering bears to the total underwriting discounts and commissions received by the Underwriters in connection with the sale of such Shares, in each case as described in the Prospectus. The relative fault shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by the Company on the one hand or the Underwriters on the other and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission.

The Company and the Underwriters agree that it would not be just and equitable if contributions pursuant to this Section 7(f) were determined by pro rata allocation (even if the Underwriters were treated as one entity for such purpose) or by

any other method of allocation which does not take account of the equitable considerations referred to above in this Section 7(f). The amount paid or payable by an indemnified party as a result of the losses, claims, damages or liabilities (or actions or proceedings in respect thereof) referred to above in this Section 7(f) shall be deemed to include any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any such action or claim. Notwithstanding the provisions of this subsection (f), (i) no Underwriter shall be required to contribute any amount in excess of the underwriting discounts and commissions applicable to the Shares purchased by such Underwriter and (ii) no person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) shall be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation. The Underwriters' obligations in this Section 7(f) to contribute are several in proportion to their respective underwriting obligations and not joint.

- (g) Timing of Any Payments of Indemnification . Any losses, claims, damages, liabilities or expenses for which an indemnified party is entitled to indemnification or contribution under this Section 7 shall be paid by the indemnifying party to the indemnified party as such losses, claims, damages, liabilities or expenses are incurred, but in all cases, no later than forty-five (45) days of invoice to the indemnifying party.
- (h) Survival. The indemnity and contribution agreements contained in this Section 7 and the representation and warranties set forth in this Agreement shall remain operative and in full force and effect, regardless of (i) any investigation made by or on behalf of any Underwriter or any person controlling any Underwriter, the Company, its directors or officers or any persons controlling the Company, (ii) acceptance of any Shares and payment therefor hereunder, and (iii) any termination of this Agreement. A successor to any Underwriter, or to the Company, its directors or officers or any person controlling the Company, shall be entitled to the benefits of the indemnity, contribution and reimbursement agreements contained in this Section 7.
- (i) Acknowledgements of Parties. The parties to this Agreement hereby acknowledge that they are sophisticated business persons who were represented by counsel during the negotiations regarding the provisions hereof including, without limitation, the provisions of this Section 7, and are fully informed regarding said provisions. They further acknowledge that the provisions of this Section 7 fairly allocate the risks in light of the ability of the parties to investigate the Company and its business in order to assure that adequate disclosure is made in the Registration Statement and Prospectus as required by the Securities Act and the Exchange Act.

Section 8. Default of One or More of the Several Underwriters.

If, on the First Closing Date or the Second Closing Date, as the case may be, any one or more of the several Underwriters shall fail or refuse to purchase Shares that it or they have agreed to purchase hereunder on such date, and the aggregate number of Common Shares which such defaulting Underwriter or Underwriters agreed but failed or refused to purchase does not exceed 10% of the aggregate number of the Shares to be purchased on such date, the other Underwriters shall be obligated, severally, in the proportions that the number of Firm Shares set forth opposite their respective names on Schedule A bears to

the aggregate number of Firm Shares set forth opposite the names of all such non-defaulting Underwriters, or in such other

proportions as may be specified by the Representatives with the consent of the non-defaulting Underwriters, to purchase the Shares which such defaulting Underwriter or Underwriters agreed but failed or refused to purchase on such date. If, on the First Closing Date or the Second Closing Date, as the case may be, any one or more of the Underwriters shall fail or refuse to purchase Shares and the aggregate number of Shares with respect to which such default occurs exceeds 10% of the aggregate number of Shares to be purchased on such date, and arrangements satisfactory to the Representatives and the Company for the purchase of such Shares are not made within 48 hours after such default, this Agreement shall terminate without liability of any party to any other party except that the provisions of Section 5, and Section 7 shall at all times be effective and shall survive such termination. In any such case either the Representatives or the Company shall have the right to postpone the First Closing Date or the Second Closing Date, as the case may be, but in no event for longer than seven days in order that the required changes, if any, to the Registration Statement and the Prospectus or any other documents or arrangements may be effected.

As used in this Agreement, the term "Underwriter" shall be deemed to include any person substituted for a defaulting Underwriter under this Section 8. Any action taken under this Section 8 shall not relieve any defaulting Underwriter from liability in respect of any default of such Underwriter under this Agreement.

Section 9. Termination of this Agreement.

This Agreement may be terminated by the Representatives by notice given to the Company if (a) at any time after the execution and delivery of this Agreement and prior to the First Closing Date (i) trading or quotation in any of the Company's securities shall have been suspended or limited by the Commission or by the Nasdaq Stock Market, or trading in securities generally on either the Nasdaq Stock Market or the New York Stock Exchange shall have been suspended or limited, or minimum or maximum prices shall have been generally established on any of such stock exchanges by the Commission or the NASD; (ii) a general banking moratorium shall have been declared by any of federal, New York, Delaware or California authorities; (iii) there shall have occurred any outbreak or escalation of national or international hostilities or any crisis or calamity, or any change in the United States or international financial markets, or any substantial change or development involving a prospective change in United States' or international political, financial or economic conditions, as in the judgment of the Representatives is material and adverse and makes it impracticable or inadvisable to market the Common Shares in the manner and on the terms contemplated in the Prospectus or to enforce contracts for the sale of securities; (iv) in the reasonable judgment of the Representatives there shall have occurred any Material Adverse Change; or (v) the Company shall have sustained a loss by strike, fire, flood, earthquake, accident or other calamity of such character as in the judgment of the Representatives may interfere materially with the conduct of the business and operations of the Company regardless of whether or not such loss shall have been insured; or (b) in the case of any of the events specified 9(a)(i)-(v), such event singly or together with any other event, makes it, in your judgment, impracticable or inadvisable to market the Common Shares in the manner and on the terms contemplated in the Prospectus. Any termination pursuant to this Section 9 shall be without liability on the part of (x) the Company to any Underwriter, except that the Company shall be obligated to reimburse the expenses of the Representatives and the Underwriters pursuant to

Sections 5 and 6 hereof, (y) any Underwriter to the Company or any person controlling the Company, or (z) of any party hereto to any other party except that the provisions of Section 7 shall at all times be effective and shall survive such termination.

Section 10. Representations and Indemnities to Survive Delivery.

The respective indemnities, agreements, representations, warranties and other statements of the Company or any person controlling the company, of its officers and of the several Underwriters set forth in or made pursuant to this Agreement will remain in full force and effect, regardless of any investigation made by or on behalf of any Underwriter or the Company or any of its or their partners, officers or directors or any controlling person, as the case may be, and will survive delivery of and payment for the Shares sold hereunder and any termination of this Agreement.

Section 11. Notices.

All communications hereunder shall be in writing and shall be mailed, hand delivered or telecopied and confirmed to the parties hereto as follows:

If to the Representatives:

Robertson Stephens, Inc. 555 California Street, Suite 2600 San Francisco, California 94104 Facsimile: (415) 676-2675 Attention: General Counsel

with a copy to:

O'Melveny & Myers LLP Embarcadero Center West 275 Battery Street, Suite 2600 San Francisco, CA 94111-3305 Facsimile: (415) 984-8701 Attention: Peter T. Healy, Esq.

If to the Company:

Neurocrine Biosciences, Inc. 10555 Science Center Drive San Diego, CA 92121 Facsimile: (858) 658-7600 Attention: President

with a copy to:

Latham & Watkins 505 Montgomery Street, Suite 1900 San Francisco, CA 94111 Facsimile: (415) 395-8095 Attention: John M. Newell, Esq.

Any party hereto may change the address for receipt of communications by giving written notice to the others.

Section 12. Successors.

This Agreement will inure to the benefit of and be binding upon the parties hereto, including any substitute Underwriters pursuant to Section 9 hereof, and to the benefit of the employees, officers and directors and controlling persons referred to in Section 7, and to their respective successors, and no other person will have any right or obligation hereunder. The term "successors" shall not include any purchaser of the Shares as such from any of the Underwriters merely by reason of such purchase.

Section 13. Partial Unenforceability.

The invalidity or unenforceability of any Section, paragraph or provision of this Agreement shall not affect the validity or enforceability of any other Section, paragraph or provision hereof. If any Section, paragraph or provision of this Agreement is for any reason determined to be invalid or unenforceable, there shall be deemed to be made such minor changes (and only such minor changes) as are necessary to make it valid and enforceable.

Section 14. Section 14. Governing Law Provisions.

- (a) Governing Law. This agreement shall be governed by and construed in accordance with the internal laws of the state of New York applicable to agreements made and to be performed in such state.
- (b) Consent to Jurisdiction. Any legal suit, action or proceeding arising out of or based upon this Agreement or the transactions contemplated hereby ("Related Proceedings") may be instituted in the federal courts of the United States of America located in the City and County of San Francisco or the courts of the State of California in each case located in the City and County of San Francisco (collectively, the "Specified Courts"), and each party irrevocably submits to the exclusive jurisdiction (except for proceedings instituted in regard to the enforcement of a judgment of any such court (a "Related Judgment"), as to which such jurisdiction is non-exclusive) of such courts in any such suit, action or proceeding. Service of any process, summons, notice or document by mail to such party's address set forth above shall be effective service of process for any suit, action or other proceeding brought in any such court. The parties irrevocably and unconditionally waive any objection to the laying of venue of any suit, action or other proceeding in the Specified Courts and irrevocably and unconditionally waive and agree not to plead or claim in any such court that any such suit, action or other proceeding brought in any such court has been brought in an inconvenient forum.

Section 15. General Provisions.

This Agreement constitutes the entire agreement of the parties to this Agreement and supersedes all prior written or oral and all contemporaneous oral agreements, understandings and negotiations with respect to the subject matter hereof. This Agreement may be executed in two or more counterparts, each one of which shall be an original, with the same effect as if the signatures thereto and hereto were upon the same instrument. This Agreement may not be amended or modified unless in writing by all of the parties hereto, and no condition herein (express or implied) may be waived unless waived in writing by each party whom the condition is meant to benefit. Section headings herein are for the convenience of the parties only and shall not affect the construction or interpretation of this Agreement.

[The remainder of this page has been intentionally left blank.]

If the foregoing is in accordance with your understanding of our agreement, please sign and return to the Company the enclosed copies hereof, whereupon this instrument, along with all counterparts hereof, shall become a binding agreement in accordance with its terms.

Very truly yours,
NEUROCRINE BIOSCIENCES, INC.
By:
Gary Lyons President

ROBERTSON STEPHENS, INC. SALOMON SMITH BARNEY INC.

On their behalf and on behalf of each of the several underwriters named in Schedule A hereto.

.

By: ROBERTSON STEPHENS, INC.

By:

G Mitchell Whiteford

G. Mitchell Whiteford Managing Director

SCHEDULE A

Underwriters

Underwriters	Number of Firm Shares To be Purchased
Robertson Stephens, Inc. Salomon Smith Barney Inc. [] [] [] [] [] [] [] [_	
Total	[]

Schedule A

Exhibit A

Form of Lock-Up Agreement

Robertson Stephens, Inc.
Salomon Smith Barney Inc.
As Representatives of the Several Underwriters
c/o Robertson Stephens, Inc.
555 California Street, Suite 2600
San Francisco, California 94104

Re: Neurocrine Biosciences, Inc. (the "Company")

Ladies & Gentlemen:

The undersigned is an owner of record or beneficially of certain shares of Common Stock of the Company ("Common Stock") or securities convertible into or exchangeable or exercisable for Common Stock. The Company proposes to carry out a public offering of Common Stock (the "Offering") for which you will act as the representatives (in such capacity, the "Representatives") of the underwriters. The undersigned recognizes that the Offering will be of benefit to the undersigned and will benefit the Company by, among other things, raising additional capital for its operations. The undersigned acknowledges that you and the other underwriters are relying on the representations and agreements of the undersigned contained in this letter in carrying out the Offering and in entering into underwriting arrangements with the Company with respect to the Offering.

In consideration of the foregoing, the undersigned hereby agrees that the undersigned will not offer to sell, contract to sell, or otherwise sell, dispose of, loan, pledge or grant any rights with respect to (collectively, a "Disposition") any shares of Common Stock, any options or warrants to purchase any shares of Common Stock or any securities convertible into or exchangeable for shares of Common Stock (collectively, "Securities") now owned or hereafter acquired directly by such person or with respect to which such person has or hereafter acquires the power of disposition, otherwise than (i) as a bona fide gift or gifts, or in connection with bona fide estate planning, provided the donee or donees or transferees thereof agree in writing to be bound by this restriction, (ii) as a distribution to partners or shareholders of such person, provided that the distributees thereof agree in writing to be bound by the terms of this restriction, (iii) with respect to sales or purchases of Common Stock acquired on the open market after the date of this Agreement or (iv) with the prior written consent of Robertson Stephens, Inc. The foregoing restrictions will begin at the opening of the market on the day the Common Stock issued in the Offering commences trading on the Nasdaq National Market and terminate at the close of trading on the 90th day after (and including) such date (the "Lock-Up Period"). The foregoing restriction has been expressly agreed to preclude the holder of the Securities from engaging in any hedging or other transaction which is designed to or reasonably expected to lead to or result in a Disposition of Securities during the Lock-Up Period, even if such Securities would be

disposed of by someone other than such holder. Such prohibited hedging or other transactions would include, without limitation, any short sale (whether or not against the box) or any purchase, sale or grant of any right (including, without limitation, any put or call option) with respect to any Securities or with respect to any security (other than a broad-based market basket or index) that included, relates to or derives any significant part of its value from Securities. The undersigned also agrees and consents to the entry of stop transfer instructions with the Company's transfer agent and registrar against the transfer of shares of Common Stock or Securities held by the undersigned except in compliance with the foregoing restrictions.

With respect to this Offering only, the undersigned waives any registration rights relating to registration under the Securities Act of 1933, as amended, of any Common Stock or other Securities owned either of record or beneficially by the undersigned, including any rights to receive notice of the Offering.

This agreement is irrevocable and will be binding on the undersigned and the respective successors, heirs, personal representatives, and assigns of the undersigned.

Dated:	
	Printed Name of Holder
D	
Ву:	
	Signature
	orginaeur e
	Name of Person Signing
	ty of person signing if
signing as custodian,	trustee, or on behalf
	of an entity)

Exhibit B

Matters to be Covered in the Opinion of Company Counsel

- 1. The Company is a corporation and is validly existing and in good standing under the laws of the State of Delaware, with corporate power and authority to own, lease and operate its properties and to conduct its business as described in the Registration Statement and the Prospectus.
- 2. Based solely on certificates from public officials, we confirm that the Company is qualified to do business in the State of California and the State of Oregon.
- 3. As of the date hereof, the authorized capital stock of the Company consists of 5,000,000 shares of Preferred Stock, par value \$0.001 per share, and 50,000,000 shares of Common Stock, par value \$0.001 per share.
- 4. The Shares to be issued and sold by the Company pursuant to the Underwriting Agreement have been duly authorized and, when issued to and paid for by you and the other Underwriters in accordance with the terms of the Underwriting Agreement, will be validly issued, fully paid and non-assessable and free of preemptive rights arising under the Company's Certificate of Incorporation or the Delaware General Corporation Law.
- 5. The Company has the corporate power and authority to enter into the Underwriting Agreement and to issue, sell and deliver to the Underwriters the Shares to be issued and sold by the Company pursuant to the Underwriting Agreement.
- 6. The Underwriting Agreement has been duly authorized, executed and delivered by the Company.
- 7. The Registration Statement has become effective under the Securities Act and, to our knowledge, no stop order suspending the effectiveness of the Registration Statement has been issued under the Securities Act and no proceedings therefor have been initiated or threatened by the Commission; and any required filing of the Prospectus pursuant to Rule 424(b) under the Securities Act has been made in accordance with Rule 424(b) and 430A under the Securities Act.
- 8. The Registration Statement and the Prospectus comply as to form in all material respects with the requirements for registration statements on Form S-3 under the Securities Act and the rules and regulations of the Commission thereunder; it being understood, however, that we express no opinion with respect to the financial statements, schedules or other financial or statistical data included or incorporated by reference in, or omitted from, the Registration Statement or the Prospectus. In passing upon the compliance as to form of the Registration Statement and the Prospectus, we have assumed that the statements made and incorporated by reference therein are correct and complete.

- 9. The statements set forth in Part II of the Registration Statement under the heading "Indemnification of Directors and Officers," insofar as such statements constitute a summary of legal matters, are accurate in all material respects.
- 10. The issuance and sale of the Shares by the Company pursuant to the Underwriting Agreement will not result in the violation by the Company of (i) its Certificate of Incorporation or Bylaws, (ii) to our knowledge, any federal or California statute, rule or regulation known to us to be applicable to the Company or (iii) in the breach of or a default under any of the agreements listed on Exhibit A attached hereto. No opinion is expressed in
- clause (ii) of this paragraph 10 as to the application of Section 548 of the federal Bankruptcy Code and comparable provisions of state law or of any antifraud laws, federal or state securities laws, antitrust or trade regulation laws, the Hatch/Waxman Patent Term Extension Act and the other patent laws of the United States or the rules and regulations of the U.S. Patent and Trademark Office, the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, the Food and Drug Administration Modernization Act, the Orphan Drug Act or the rules and regulations of the Federal Food and Drug Administration, or any other federal or California laws pertaining to the regulation of the development, testing, manufacture or sale of drugs.
- 11. No consent, approval, authorization or order of, or filing with, any federal or California court or governmental agency or body is required for the consummation of the issuance and sale of the Shares by the Company pursuant to the Underwriting Agreement, except such as have been obtained under the Securities Act and such as may be required under state securities laws in connection with the purchase and distribution of such Shares by the Underwriters. No opinion is expressed in this paragraph 11 as to the application of Section 548 of the federal Bankruptcy Code and comparable provisions of state law or of any antifraud laws, federal or state securities laws, antitrust or trade regulation laws, the Hatch/Waxman Patent Term Extension Act and the other patent laws of the United States or the rules and regulations of the U.S. Patent and Trademark Office, the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, the Food and Drug Administration Modernization Act, the Orphan Drug Act or the rules and regulations of the Federal Food and Drug Administration, or any other federal or California laws pertaining to the regulation of the development, testing, manufacture or sale of druas.
- 12. After giving effect to the Company's sale of the Shares and the application of the net proceeds therefrom on the date hereof, the Company is not an "investment company" as such term is defined in the Investment Company Act of 1940, as amended.

In addition, we have participated in conferences with officers and other representatives of the Company, representatives of the independent public accountants for the Company, and your representatives, at which the contents of the Registration Statement and the Prospectus and related matters were discussed and, although we are not passing upon, and do not assume any responsibility for, the accuracy, completeness or fairness of the statements contained or incorporated by reference in the Registration Statement and the Prospectus and have not made any independent check or verification thereof, during the course of such participation, no facts came to our attention that caused us to believe that the Registration Statement, at the time it became effective, contained an untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary to make the statements therein not misleading, or that the

Prospectus (including the Incorporated Documents), as of its date or as of the date hereof, contained an untrue statement of a material fact or omitted to state a material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading; it being understood that we express no belief with respect to the financial statements, schedules and other financial and statistical data included or incorporated by reference in, or omitted from, the Registration Statement or the Prospectus. We point out that we have not been retained by the Company to represent the Company in connection with, and we are not experts regarding, matters under the Hatch/Waxman Patent Term Extension Act and the other patent laws of the United States or the rules and regulations of the U.S. Patent and Trademark Office, the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, the Food and Drug Administration Modernization Act, the Orphan Drug Act or the rules and regulations of the Federal Food and Drug Administration, or any other federal or California laws pertaining to the regulation of the development, testing, manufacture or sale of drugs or the Company's compliance therewith.

Exhibit C

Matters to be Covered in the Opinion of Internal Company Counsel

- 1. To my knowledge, the Company does not own or control, directly or indirectly, any corporation, association or other entity other than Neurocrine Biosciences, Canada (the "Subsidiary").
- 2. To my knowledge, the Shares to be issued by the Company on the date of such opinion pursuant to the terms of this Agreement, upon issuance and delivery against payment therefor in accordance with the terms hereof, will not have been issued in violation of or subject to any co-sale right, right of first refusal or other similar right identified in a certificate delivered by Paul W. Hawran, Executive Vice President and Chief Financial Officer of the Company.
- 3. The statements set forth in the Prospectus under the heading "Business--Government Regulation," insofar as such statements constitute a summary of legal matters, are accurate in all material respects.
- 4. To my knowledge, there are no contracts or documents of a character required to be described in the Registration Statement or Prospectus (or required to be filed under the Exchange Act, if upon such filing they would be incorporated by reference therein) or to be filed as exhibits to the Registration Statement that are not described and filed as required.
- 5. The issuance and sale of the Shares by the Company pursuant to the Underwriting Agreement will not result in (i) the violation by the Company of the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, the Food and Drug Administration Modernization Act, the Orphan Drug Act or the rules and regulations of the Federal Food and Drug Administration, or any other federal or California laws known to me pertaining to the regulation of the development, testing, manufacture or sale of drugs or (ii) the breach of or a default under any order, writ or decree of any court or governmental agency having jurisdiction over the Company or the Subsidiary or over any of their respective properties or operations.
- 6. No consent, approval, authorization or order of, or filing with, any federal or California court or governmental agency or body is required under the patent laws of the United States or the rules and regulations of the Federal Food, Drug and Cosmetic Act, the Public Health Service Act, the Food and Drug Administration Modernization Act, the Orphan Drug Act or the rules and regulations of the Federal Food and Drug Administration, or any other federal or California laws pertaining to the regulation of the development, testing, manufacture or sale of drugs, for the consummation of the issuance and sale of the Shares by the Company pursuant to the Underwriting Agreement.
- 7. To my knowledge, there are no legal or governmental proceedings pending or threatened against the Company or the Subsidiary of a character required to be disclosed in the Registration Statement or the Prospectus by the Securities Act, other than those described therein, except for such proceedings as, if the subject of an

unfavorable decision, would not individually or in the aggregate result in a Material Adverse Effect.

8. To my knowledge, except as disclosed in the Prospectus, the Company is not presently (a) in material violation of its Certificate of Incorporation or Bylaws or (b) in material breach of any order, writ or decree of any court or governmental agency or body having jurisdiction over the Company.

In addition, I have participated in conferences with officers and other representatives of the Company, representatives of the independent public accountants for the Company, and your representatives, at which the contents of the Registration Statement and the Prospectus and related matters were discussed and, although I am not passing upon, and do not assume any responsibility for, the accuracy, completeness or fairness of the statements contained or incorporated by reference in the Registration Statement and the Prospectus and have not made any independent check or verification thereof, during the course of such participation, no facts came to my attention that caused me to believe that the Registration Statement, at the time it became effective, contained an untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary to make the statements therein not misleading, or that the Prospectus (including the Incorporated Documents), as of its date or as of the date hereof, contained an untrue statement of a material fact or omitted to state a material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading; it being understood that I express no belief with respect to the financial statements, schedules and other financial and statistical data included or incorporated by reference in, or omitted from, the Registration Statement or the Prospectus.

EXHIBIT D

Matters to be Covered in the Opinion of Intellectual Property Counsel for the Company

Ladies and Gentlemen:

We represent Neurocrine Biosciences, Inc. (the "Company") only in connection with patent and other intellectual property matters for which representation has been requested, and our engagement has been limited to such specific intellectual property matters as to which we were consulted by the Company. Such representation has included the preparation of selected United States patent applications, and the filing of international patent applications corresponding to certain of these United States applications, as well as the prosecution of such applications before the United States Patent and Trademark Office and corresponding foreign governmental patent offices (the "Representation"). Our response herein is limited solely to those matters as to which we have been engaged to give substantive attention on behalf of the Company in the form of legal representation or consultation. The Company has previously retained other counsel on intellectual property matters, including through the in-licensing of certain technology, and will periodically retain other counsel on such matters.

This opinion is given to you pursuant to Section 4(f) of the Underwriting Agreement dated ______ (the "Underwriting Agreement"), between the Company and each of you as representatives of the several underwriters named in Schedule A to the Underwriting Agreement (the "Underwriters"). The preliminary prospectus, dated November 8, 2000, delivered to the Securities and Exchange Commission (the "Commission") for filing in connection with the Company's Registration Statement on Form S-3 (No. 333-47252) under the Securities Act of 1933, as amended, and the rules and regulations of the Commission promulgated there under, and the final prospectus dated ______ are herein collectively referred to as the "Prospectus."

It should be recognized that opinions of patent counsel rely on certain determinations of factual issues and determinations of complex issues of law and technology in an area where many issues have yet to be resolved. Even though patent counsel renders such opinions, the forums in which such issues may be raised are not bound by such opinions.

It should be further recognized that we have not been authorized to investigate, nor have we investigated, any legal matters of concern to the Company not relevant to the Representation and, therefore, we express no opinion on such matters. Such matters include those which may have been mentioned to us by the Company, but which we have not been requested to handle.

Subject to the conditions and qualifications set forth above, it is our opinion that the statements under the captions "Risk Factors--If we are unable to protect our intellectual property, our competitors could develop and market products based on our discoveries, which may reduce demand for our products," and "Risk Factors--We may face disputes with third parties regarding the validity of our patents or our alleged infringement of third

parties' patents, which could prevent or delay commercialization of our product candidates" as they specifically relate to the Representation, and under the caption "Business--Intellectual Property" in the Prospectus, to the extent that such statements relate solely to and constitute a description or summary of the legal matters, documents or proceedings relating to the Representation, and to the extent such legal matters, documents or proceedings have been disclosed to us during the course of the Representation, are accurate and fairly present and summarize the matters referred to therein.

In addition, subject to the conditions and qualifications set forth above, it is our opinion that:

- (i) the Company is, to the best of our knowledge, the sole assignee and owner of each of the United States issued patents and pending patent applications that we are prosecuting on behalf of the Company as set forth in Schedule A, and the employees of the Company who are inventors on such patent applications are under an obligation to assign all of their rights in such applications to the Company;
- (ii) the Company is, to the best of our knowledge, the sole assignee and owner of each of the foreign issued patents and pending patent applications that we are prosecuting on behalf of the Company as set forth in Schedule B, and the employees of the Company who are inventors on such patent applications are under an obligation to assign all of their rights in such applications to the Company;
- (iii) to the best of our knowledge and after due inquiry, the pending applications listed in Schedules A and B are being diligently pursued;
- (iv) to the best of our knowledge, we have disclosed or intend to disclose to the United States Patent and Trademark Office all pertinent references provided to us by the Company, or which have been brought to our attention during the course of prosecution, in compliance with our duty of disclosure;
- (v) with the exception of the two pending European oppositions noted in the Prospectus, we are not aware of any legal or governmental proceedings pending relating to the patents or applications listed in Schedules A and B, and to the best of our knowledge no such proceedings are threatened by governmental authorities or others;
- (vi) based solely upon a review of matters which we have been engaged to provide direct substantive attention, we are not aware of any notice of infringement received by the Company, and we have no reason to believe that the Company is infringing or otherwise violating any valid patent claims of a third party; and
- (vii) we are not aware of any infringement by third parties of any of the Company's patents.

This opinion letter is furnished to the Underwriters and is solely for their benefit in connection with their purchase of common stock of the Company. This opinion letter is not to be used, circulated, quoted or otherwise referred to for any other purpose, nor may it be used or relied upon by anyone other than to whom this opinion letter is furnished.

Very truly yours, Seed Intellectual Property Law Group PLLC

Karl R. Hermanns

[LETTERHEAD OF LATHAM & WATKINS]

November 30, 2000

Neurocrine Biosciences, Inc. 10555 Science Center Drive San Diego, California 92121

Re: Registration Statement No. 333-47252; 3,450,000 shares of Common Stock, par value \$0.001 per share

Ladies and Gentlemen:

In connection with the registration of 3,450,000 shares of common stock of Neurocrine Biosciences, Inc., a Delaware corporation (the "Company"), par value \$0.001 per share (the "Shares"), under the Securities Act of 1933, as amended (the "Act"), by the Company, on Form S-3 filed with the Securities and Exchange Commission (the "Commission") on October 4, 2000 (File No. 333-47252), as amended by Amendment No. 1 filed with the Commission on November 8, 2000, as amended by Amendment No. 2 filed with the Commission on November 22, 2000, and as amended by Amendment No. 3 filed with the Commission on November 30, 2000 (collectively, the "Registration Statement"), you have requested our opinion with respect to the matters set forth below.

In our capacity as your special counsel in connection with such registration, we are familiar with the proceedings taken and proposed to be taken by the Company in connection with the authorization, issuance and sale of the Shares, and for the purposes of this opinion, have assumed such proceedings will be timely completed in the manner presently proposed. In addition, we have made such legal and factual examinations and inquiries, including an examination of originals or copies certified or otherwise identified to our satisfaction of such documents, corporate records and instruments, as we have deemed necessary or appropriate for purposes of this opinion.

LATHAM & WATKINS

Neurocrine Biosciences, Inc. November 30, 2000 Page 2

In our examination, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, and the conformity to authentic original documents of all documents submitted to us as copies.

We are opining herein as to the effect on the subject transaction only of the General Corporation Law of the State of Delaware, and we express no opinion with respect to the applicability thereto, or the effect thereon, of the laws of any other jurisdiction or, in the case of Delaware, any other laws, or as to any matters of municipal law or the laws of any local agencies within any state.

Subject to the foregoing, it is our opinion that the Shares have been duly authorized, and, upon issuance, delivery and payment therefor in the manner contemplated by the Registration Statement, will be validly issued, fully paid and nonassessable.

We consent to your filing this opinion as an exhibit to the Registration Statement and to the reference to our firm contained under the heading "Legal Matters."

Very truly yours,

/s/ Latham & Watkins

CONSENT OF ERNST & YOUNG LLP, INDEPENDENT AUDITORS

We consent to the reference to our firm under the caption "Experts" in this Amendment No. 3 to the Registration Statement on Form S-3 and related Prospectus of Neurocrine Biosciences, Inc. for the registration of 3,450,000 shares of its common stock and to the incorporation by reference therein of our report dated January 27, 2000, with respect to the consolidated financial statements of Neurocrine Biosciences, Inc. included in its Annual Report (Form 10-K/A) for the year ended December 31, 1999, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

San Diego, California

November 29, 2000