UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

	FORM 10-	K						
(Ma	ark One) ANNUAL REPORT UNDER SECTION 13 OR 15(d) OF THE S	SECURITIES EXCHANGE ACT OF 1934						
	For the fiscal year ended September 30, 2010.							
	TRANSITION REPORT UNDER SECTION 13 OR 15(d) OF T	THE SECURITIES EXCHANGE ACT OF 1934						
	For the transition period from to							
	Commission file number	000-21898						
	ARROWHEAD RESEARC (Exact name of registrant as specifie							
	Delaware (State of incorporation)	46-0408024 (I.R.S. Employer Identification No.)						
	201 S. Lake Avenue, Su Pasadena, California (626) 304-3400 (Address and telephone number of princi	91101						
	Securities registered under Section 12(b) of the Exchange Act:							
	Title of each class	Name of each exchange on which registered						
	Common Stock, \$0.001 par value	The NASDAQ Capital Market						
	Securities registered pursuant to Section 1	2(g) of the Exchange Act:						
	None							
	Indicate by a check mark if the registrant is a well-known seasoned issuer, as define	ed in Rule 405 of the Securities Act. Yes □ No ⊠						
	Indicate by a check mark if the registrant is not required to file reports pursuant to S	Section 13 or 15(d) of the Act. Yes □ No ⊠						
	Indicate by check mark whether the registrant (1) has filed all reports required to be ng the preceding 12 months (or for such shorter period that the registrant was required tirements for the past 90 days. Yes \boxtimes No \square							

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes							
Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. \square							
Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "accelerated filer and large accelerated filer" in Rule 12b-2 of the Exchange Act.							
Large accelerated filer \square Accelerated filer \square Non-accelerated filer \square Smaller Reporting Company \boxtimes							
Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes \square No \boxtimes							
The aggregate market value of issuer's outstanding Common Stock held by non-affiliates was approximately \$72 million based upon the bid price of issuer's Common Stock on March 31, 2010.							
As of December 22, 2010, 71,806,694 shares of the issuer's Common Stock were outstanding.							

INDEX TO FINANCIAL STATEMENTS AND SCHEDULES

PART I

TABLE OF CONTENTS

Ітем 1.	<u>Business</u>	1
ITEM 1A.	RISK FACTORS	10
Ітем 1В.	UNRESOLVED STAFF COMMENTS	18
ITEM 2.	<u>Properties</u>	18
Ітем 3.	LEGAL PROCEEDINGS	19
ITEM 4.	REMOVED AND RESERVED	19
PART II		
Ітем 5.	MARKET FOR THE REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY	
	<u>Securities</u>	19
Ітем 6.	SELECTED FINANCIAL DATA	19
ITEM 7.	MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS	19
ITEM 7A.	QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK	26
ITEM 8.	FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA	26
Ітем 9.	CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE	26
Ітем 9А.	CONTROLS AND PROCEDURES	26
Ітем 9В.	OTHER INFORMATION	27
PART III		
Ітем 10.	DIRECTORS, EXECUTIVE OFFICERS, AND CORPORATE GOVERNANCE	27
ITEM 11.	EXECUTIVE COMPENSATION	30
ITEM 12.	SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	32
ITEM 13.	CERTAIN RELATIONSHIPS, RELATED TRANSACTIONS AND DIRECTORS INDEPENDENCE	33
ITEM 14.	PRINCIPAL ACCOUNTANT FEES AND SERVICES	34
PART IV		
Ітем 15.	EXHIBITS AND FINANCIAL STATEMENT SCHEDULES	34
SIGNATUR	<u>res</u>	38

F-1

FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, and we intend that such forward-looking statements be subject to the safe harbors created thereby. For this purpose, any statements contained in this Annual Report on Form 10-K except for historical information may be deemed to be forward-looking statements. Without limiting the generality of the foregoing, words such as "may," "will," "expect," "believe," "anticipate," "intend," "could," "estimate," or "continue" or the negative or other variations thereof or comparable terminology are intended to identify forward-looking statements. In addition, any statements that refer to projections of our future financial performance, trends in our businesses, or other characterizations of future events or circumstances are forward-looking statements.

The forward-looking statements included herein are based on current expectations of our management based on available information and involve a number of risks and uncertainties, all of which are difficult or impossible to predict accurately and many of which are beyond our control. As such, our actual results may differ significantly from those expressed in any forward-looking statements. Factors that may cause or contribute to such differences include, but are not limited to, those discussed in more detail in Item 1 (Business) and Item 1A (Risk Factors) of Part I and Item 7 (Management's Discussion and Analysis of Financial Condition and Results of Operations) of Part II of this Annual Report on Form 10-K. Readers should carefully review these risks, as well as the additional risks described in other documents we file from time to time with the Securities and Exchange Commission. In light of the significant risks and uncertainties inherent in the forward-looking information included herein, the inclusion of such information should not be regarded as a representation by us or any other person that such results will be achieved, and readers are cautioned not to place undue reliance on such forward-looking information. Except as may be required by law, we undertake no obligation to revise the forward-looking statements contained herein to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

PART I

ITEM 1. BUSINESS

Description of Business

Unless otherwise noted, (1) the term "Arrowhead" refers to Arrowhead Research Corporation, a Delaware corporation formerly known as InterActive Group, Inc., (2) the terms the "Company," "we," "us," and "our," refer to the ongoing business operations of Arrowhead and its Subsidiaries, whether conducted through Arrowhead or a subsidiary of Arrowhead, (3) the term "Subsidiaries" refers collectively to Calando Pharmaceuticals, Inc. ("Calando"), Unidym, Inc. ("Unidym"), Agonn Systems, Inc. ("Agonn",) and Tego Biosciences Corporation ("Tego"), (4) the term "Minority Investments" refers collectively to Nanotope, Inc. ("Nanotope") and Leonardo Biosystems, Inc. ("Leonardo") in which the company holds a less than majority ownership position, and (5) the term "Common Stock" refers to Arrowhead's Common Stock and the term "stockholder(s)" refers to the holders of Common Stock.

Overview

Arrowhead Research Corporation is a development stage nanotechnology holding company that forms, acquires, and operates subsidiaries commercializing innovative nanotechnologies. By working closely with leading scientists and universities, Arrowhead identifies advances in nanotechnology and matches them with product development opportunities in high-growth markets. The Company is focusing on developing and advancing a portfolio of subsidiaries in the field of nanomedicine.

Providing strategic management, financing, and operational services to its subsidiaries and minority investments, Arrowhead takes an active role in their development, keeping the business and development teams at the subsidiary companies focused on operations, technical development and near term revenue opportunities.

Arrowhead's ultimate goal is to realize the value of its investments through:

- · A public offering of Subsidiary stock;
- A sale of Subsidiary to another company;
- · License of Subsidiary technology; or
- Generating positive cash flows through operations.

Arrowhead owns two majority-owned operating subsidiaries, Calando Pharmaceuticals and Unidym, Inc. and has minority investments in two early-stage nanotechnology companies, Nanotope, Inc. and Leonardo Biosystems, Inc. Arrowhead also owns two nonoperating subsidiaries, Agonn Systems, Inc. and Tego Biosciences Corporation. Arrowhead plans to add to this portfolio through selective acquisition and formation of new nanomedicine companies, as capital resources allow.

Arrowhead was originally incorporated in South Dakota in 1989, and was reincorporated in Delaware in 2000. The Company's principal executive offices are located at 201 South Lake Avenue, Suite 703, Pasadena, California 91101, and its telephone number is (626) 304-3400. As of September 30, 2010, Arrowhead had 11 full-time employees at the corporate office and seven full-time employees at its Subsidiaries.

Subsidiaries and Minority Investments

The Company's two majority-owned Subsidiaries, and two minority investments are focused on developing, commercializing and licensing a variety of nanotechnology products and applications, including anti-cancer RNAi therapeutics, regenerative therapeutics, advanced drug delivery technology, and carbon nanotube (CNT)-based transparent conductive films (TCFs). Arrowhead anticipates expanding its portfolio through selective acquisition and the formation of new companies, as capital resources allow.

As of September 30, 2010, Arrowhead held a majority of the outstanding voting stock of the following two operating Subsidiaries.

Subsidiary Calando Pharmaceuticals, Inc.	% <u>Ownership*</u> 70.0%	Technology/Product Focus Clinical stage nano-engineered delivery of RNAi therapeutics for the treatment of cancer
Unidym, Inc.	79.0%	Commercialization of carbon nanotube-based products for the electronics industry

As of September 30, 2010, on a fully diluted basis, Arrowhead owned approximately 63.6% of Calando and 64.3% of Unidym.

Arrowhead has a minority ownership position in each of the following early-stage nanomedicine companies:

Minority Investment	% Ownership	Technology/Product Focus
Nanotope, Inc.	23.0%	Developing nano-engineered, self-assembling, bioactive scaffolding for the regeneration of spinal cord and other tissues
Leonardo Biosystems, Inc.	4.8%	Developing a multi-stage system to deliver anti-cancer therapeutics

Majority Owned Subsidiaries

Calando Pharmaceuticals, Inc.

Overview

Calando is a clinical stage nano-biotechnology company at the forefront of RNAi therapeutics. Calando has developed a nanoparticle-based drug delivery system for siRNA. Calando's platform technology is currently being tested in an open-label Phase I dose escalating clinical trial to systemically deliver—for what is believed to be for the first time—a siRNA drug candidate targeting cancer. The trial is progressing toward determining the primary endpoints of tolerability and maximum tolerated dose, while demonstrating preliminary proof-of-concept RNAi activity in some patients.

Calando is based on pioneering technology invented in the Chemical Engineering department of the California Institute of Technology. Developed to reduce the debilitating effects of cancer treatment, Calando's proprietary molecules are designed to improve the safety and efficacy of cancer therapeutics. Currently focused on siRNA and oncology applications, Calando's platform technology has the potential to be applied to a wide range of diseases beyond cancer as well as to therapeutic classes beyond siRNA therapeutics.

Calando is focused on the clinical development of RONDELTM, its siRNA delivery technology, and CALAA-01, the associated drug candidate. Interim clinical results show that CALAA-01 is well tolerated and has demonstrated preliminary proof of RNAi activity in patients treated with the highest doses. These results represent several notable "firsts" in the field of RNAi, including first to demonstrate definitive RNAi delivery after systemic administration and first to show dose dependent accumulation in target cells. In addition, CALAA-01 has been shown to mediate specific gene inhibition in humans as evidenced by mRNA knockdown and protein knockdown in tumor biopsies.

In addition, in December 2008, Calando concluded a Phase I trial with IT-101 using a drug candidate consisting of its delivery system and a small molecule anti cancer agent. Patients from this clinical trial reported fewer and less serious side effects with several cases of stable disease over many months of treatment. One patient with pancreatic cancer had stabilized disease for 17 months. The further development of the small molecule delivery platform and IT-101, the associated drug candidate, was licensed to Cerulean Pharma, Inc., ("Cerulean") a private biotech company in Boston, Massachusetts in June 2009.

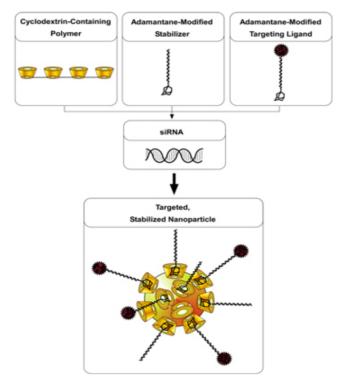
Platform Technology

Based on a novel polymeric sugar (linear cyclodextrin) molecule, Calando's drug delivery system has been applied thus far to the delivery of two classes of therapeutics: siRNA and other oligonucleotides and small molecule drugs. The polymer is combined with the drug molecule to form a drug containing nanoparticles sized larger than 10 nanometers and smaller than 100 nanometers. The Company believes that this particle size is important; drug molecules are typically sized below 10 nanometers and are quickly cleared from the body in the urine. Nanoparticles sized larger than 10 nanometers circulate longer and thus can allow administration of lower doses to patients. Nanoparticles sized smaller than 100 nanometers can escape the circulatory system through the abnormally leaky blood vessels that feed tumors and are retained in the tumor tissue due to a lack of effective tumor lymphatic drainage. Preferential accumulation in tumor tissue, where the drug can take effect, leaves other tissues relatively unaffected. The drug delivery system has the added benefits of increasing solubility, allowing targeting of the nanoparticles, and being non-immunogenic.

Calando's RONDEL™ Technology

RNA interference or "RNAi" is a naturally occurring mechanism for the regulation of gene expression that selectively inhibits the activity of, or "silences," target genes. Discovered by scientists in 2002 who were subsequently awarded the Nobel Prize in Physiology or Medicine in 2006, RNAi has been hailed as having potential to be a tremendous breakthrough in treating diseases. Because many diseases are caused by the inappropriate activity of genes, RNAi has potential application to many serious or fatal diseases including cancer, AIDS, hepatitis C, Huntington's disease and others. The mechanism is mediated by "small interfering RNA" known as siRNA.

One of the key challenges to using RNAi therapy has been the inability to systemically deliver siRNA in humans. "Naked" siRNA is degraded and destroyed by nucleases in the bloodstream and is not taken up by cells. Calando's RONDELTM system is providing new hope that effective siRNA delivery can be achieved safely and economically. Calando's polymers form the foundation for its three-part RNAi/Oligonucleotide Nanoparticle Delivery (RONDEL) technology. The first component is the positively charged polymer that, when mixed with siRNA, binds to the negatively charged "backbone" of the siRNA. The polymer and siRNA self-assemble into nanoparticles less than 100 nm diameter that fully protect the siRNA from nuclease degradation in serum. The cyclodextrin in the polymer enables the surface of the particles to be decorated by stabilizing agents and targeting ligands. These surface modifications are formed by proprietary methods involving the cyclodextrins.



The surface-modifying agents have terminal adamantane groups that form inclusion complexes with the cyclodextrin and contain poly ethylene glycol (PEG) to endow the particles with properties that prevent aggregation, enhance stability and enable systemic administration. Targeting molecules can be covalently attached to the adamantane-PEG modifier, enabling the siRNA-containing particles to be targeted to tissues of interest.

RONDEL technology offers the following advantages:

- Generalized delivery system Binds to and self-assembles with the siRNA to form uniform colloidal-sized particles. Analysis has shown that these
 particles are spherical and between 10 nm and 100 nm in diameter.
- <u>Ease of Administration</u> The RONDEL system has been designed for use as part of a two-vial system: one vial contains the delivery components, and the second vial contains the therapeutic siRNA payload. When mixed pursuant to a simple protocol, the particles self-assemble into siRNA containing nanoparticles.
- <u>Any siRNA sequence can be easily substituted</u> Because RONDEL binds to the siRNA backbone, theoretically, any siRNA therapeutic could be in the second vial.
- <u>Stealthy delivery to the immune system</u> The sugar-based delivery vehicle allows for repeat dosing with reduced risk of immune reactions. Unlike lipid delivery vehicles, the cyclodextrin-based RONDELTM delivery system has a low immune-stimulatory potential.
- <u>Safety</u> The RONDEL technology has been shown to be non-toxic in *in vitro* testing with human cell cultures, and the fully formulated polymer/siRNA particles exhibit a significant therapeutic window of safety in animals, even when repeated doses (up to eight doses over a four week period) are used. RONDEL has been well tolerated by patients in Calando's clinical trials.
- Stable under physiological conditions Particles have been shown to be stable under physiological conditions.
- <u>Effective targeted delivery</u> Calando and its partners have demonstrated successful delivery of functional siRNA therapeutics to tumor cells and to hepatocytes by systemic administration and confirmed sequence-specific gene inhibition in humans.

CALAA-01

CALAA-01 is a combination of RONDEL and a patented siRNA targeting the M2 subunit of ribonucleotide reductase, a clinically-validated cancer target. Ribonucleotide reductase catalyzes the conversion of ribonucleosides to deoxyribonucleosides and is necessary for DNA synthesis and replication, and thus tumor growth. The siRNA, developed at Calando, demonstrates potent anti-proliferative activity across multiple types of cancer cells. We believe the use of CALAA-01 in Calando's Phase I trial, initiated in June 2008, was the first siRNA therapeutic candidate to target cancer in a human clinical study and also the first systemic delivery of an siRNA therapeutic candidate. The trial is utilizing a dose escalation protocol which appears to be nearing the highest dose in the protocol and yielding promising preliminary results. Through September 30, 2010, 18 patients were enrolled in the Phase I clinical trial out of a planned protocol of up to 36 patients.

Interim clinical results were recently presented at the 2010 American Society of Clinical Oncology meeting (ASCO). Data from a total of 15 patients accrued to 5 dose levels (3, 9, 18, 24, 30 mg/m²) showed that CALAA-01 was well tolerated. Treatment-related adverse events were mostly mild to moderate with fatigue, fever/chills, allergic, or gastrointestinal-related adverse events most frequently observed. Importantly, no changes in coagulation, liver function tests, or kidney function were observed.

Analysis of tumor biopsies from three melanoma patients showed the presence of intracellular nanoparticles in amounts that correlated with dose. Additionally, a reduction was found in both the RRM2 messenger RNA and protein levels when compared to pre-dosing tissue. Furthermore, the presence of siRNA-mediated mRNA cleavage products was confirmed by 5'-RACE, demonstrating that siRNA-mediated mRNA cleavage occurs specifically at the site predicted for an RNAi mechanism. These preliminary results were published in March 2010 in the scientific journal *Nature*, citing these interim data from our Phase I trial as the first evidence of systemic delivery of siRNA, and the successful "silencing" of a widely recognized cancer gene via RNA interference in humans. Patient accrual is ongoing at the University of California, Los Angeles, California and the START clinic, San Antonio, Texas and additional safety and pharmacodynamic data will be forthcoming.

Calando plans to further develop CALAA-01 in the clinic as capital resources may allow. This may include a Phase Ib / Phase II clinical trial in combination with traditional chemotherapeutics in cancer indications with high unmet medical need. Combination therapy is especially promising for CALAA-01, because overexpression of its cellular target, RRM2, has been associated with resistance to certain types of chemotherapeutics. In pre-clinical studies, CALAA-01 has shown significant synergistic activity in these cases.

Calando's Cyclosert™ Technology & IT-101

The other polymeric drug delivery technology, Cyclosert, was designed by Calando's scientists for the delivery of small molecule drugs. Cyclosert provides many of the same benefits as the RONDEL system. In December 2008, Calando completed a Phase I trial with IT-101, comprised of Calando's polymer and Camptothecin, a potent anti-cancer drug, with a positive safety profile and indications of efficacy. On June 23, 2009, Calando entered into agreements to license Cyclosert and IT-101 to Cerulean. Under the terms of the agreements, Calando granted Cerulean an exclusive royalty-bearing worldwide license to certain patent rights and know-how and transferred to Cerulean certain intellectual property related to the linear-cyclodextrin drug delivery platform and IT-101 in exchange for an initial payment of \$2.4 million. Under the agreements, Calando retained the rights to use the linear-cyclodextrin drug delivery platform to deliver any kind of nucleic acid including siRNA. As such, Calando retains the rights to its RONDEL platform, as well as the CALAA-01 and CALAA-02 lead drugs.

Outsourced Clinical Trial Management, R&D, Manufacturing and Supply

Calando used contract manufacturers to manufacture each of its product candidates and has on hand sufficient material to complete the CALAA-01 Phase I study. These materials were manufactured in accordance with a quality control and quality assurance program, including a set of standard operating procedures and specifications, designed to ensure that its products are manufactured in accordance with current Good Manufacturing Procedures, or cGMPs, and other applicable domestic and foreign regulations. Currently, Calando has no laboratory facilities and is reliant on contract R&D facilities to support its clinical trial. Along with its internal resources, Calando uses consultants to manage and monitor its clinical trial. Calando plans to continue to rely on third parties to meet these needs.

The development of CALAA-01, IT-101 and other pipeline candidates are preliminary, and there is no assurance that they will be successful. There are numerous technical, regulatory and marketing challenges that must be overcome to successfully commercialize Calando's products, including, but not limited to the following:

- Advancing pipeline candidates requires extensive preclinical testing and approval by the U.S. Food and Drug Administration ("FDA") before clinical testing can commence.
- Advancing therapeutic candidates through preclinical and clinical testing is expensive, resource intensive and time consuming.
- · Complications may arise that would cause the clinical testing to be interrupted or stopped. FDA approval is required before products can be sold.
- · Even if FDA approval is eventually obtained, there is no assurance that it will be accepted by the medical community.

It is not possible at this time to accurately determine the final cost of the development projects, the completion dates or when or if revenue will be generated. For additional information relating to the risks of developing new therapies, please see Item 1A – Risk Factors.

Intellectual Property

Calando controls an intellectual property portfolio of patents covering certain linear cyclodextrin polymers and related technology (the "linear cyclodextrin system"). The portfolio covers both RONDEL and Cyclosert. In June 2009, Calando sold and assigned to Cerulean certain Calando owned-patents for linear cyclodextrin polymers conjugated to drugs. Additionally, Calando granted Cerulean an exclusive license under its rights to the linear cyclodextrin system to develop certain drug products. Calando retained rights to use the linear cyclodextrin system to develop drugs in which the therapeutic agent is a nucleic acid (e.g., siRNA), a second generation epothilone, tubulysin or cytolysin.

Calando also owns an issued patent covering the siRNA active ingredient in CALAA-01 and has filed a patent application to cover the siRNA active ingredient of CALAA-02. Calando has licensed patents from Alnylam relevant to siRNA therapeutics for CALAA-01 and CALAA-02. Calando has in-licensed from R&D Biopharmaceuticals exclusive rights to second generation synthetic epothilones. Calando has out licensed to R&D Biopharmaceuticals the use of the linear cyclodextrin system for delivering tubulysin and cytolysin drugs. The RNAi and nanoparticle drug delivery patent landscape is complex and rapidly evolving. As such, Calando may need to obtain additional patent licenses prior to commercialization of its lead drug candidates.

The Drug Delivery and Oncology Markets

Despite advances in drug discovery, pharmaceutical firms remain challenged by getting the right compound to the right place in the human body, where it can maximize its effect. Additionally, over the next decade, multiple "blockbuster" pharmaceuticals will go off patent, resulting in a significant loss to the pharmaceutical industry as generic versions of these drugs enter the market. Patent expiration coupled with a challenging drug discovery environment, and continued problems with late stage trial failures has left pharmaceutical pipelines thin. In response, the industry has pursued reformulation of existing or previously failed compounds using new drug delivery technology to expand pipelines and prolong patent life. According to the American Cancer Society, cancer is the

second leading cause of death in the United States and accounts for approximately one in every four deaths. The National Institutes of Health has estimated the direct medical cost of cancer to be in excess of \$74 billion per year. Dose limiting toxicity, poor tissue specificity, and large effective distribution are major restrictive factors in effective cancer chemotherapy. Consequently, complete tumor response is not often achieved in patients receiving chemotherapy alone. We believe that this offers a potentially significant opportunity for firms developing technologies to more effectively deliver anti-cancer agents to malignant cells.

Competition

Calando is engaged in the rapidly changing business of developing treatments for human disease through the regulation of gene expression and delivery of proprietary novel cancer therapies. Competition in these fields is intense as other companies are developing therapies similar to our nanoparticle drug delivery systems, and targeting patient populations that are similar to the patient populations that are targeted by Calando. A number of companies are pursuing research and development programs relating to the emerging area of cancer therapies using nanoparticle conjugates and RNA interference. A number of these companies have filed patent applications in these areas. It is difficult to predict whether any of these companies will be successful in obtaining patent protection, whether the patent protection sought will address important aspects of the technology and to what extent these companies will be successful in their RNA interference efforts. New competitors may arise and we may not be aware of all competitors in this space. A number of Calando's competitors are more established and have greater resources than Calando. Furthermore, even if Calando is successful in developing commercial products, it is possible that competitors will achieve greater market acceptance.

Systemic delivery of siRNA and other oligonucleotide therapeutics has proven critical for the success of all nucleic acid therapeutics. Naturally, multiple firms have recognized the problem of systemic siRNA delivery as a significant opportunity and other firms are developing products in this space. Companies developing siRNA delivery products include but are not limited to Alnylam, Merck, Novartis, Tekmira, RXi Pharmaceuticals, Benitec, Quark Pharmaceuticals, Marina Biotech, Isis Pharmaceuticals and Silence Therapeutics. Additionally, many academic groups are developing and may seek to commercialize siRNA delivery technologies.

Key Personnel

Christopher Anzalone, Ph.D., is the CEO of Calando. Dr. Anzalone is also the CEO of Arrowhead, Nanotope and Leonardo. Thomas Schluep, Sc.D., is the Chief Scientific Officer (CSO) of Calando.

Calando's Board of Directors consists of R. Bruce Stewart, Executive Chairman of Arrowhead, Christopher Anzalone, CEO and director of Arrowhead, Nanotope and Leonardo, and Edward W. Frykman, a member of the Arrowhead Board. Dr. Bruce Given and Dr. Mostafa Analoui are independent Board members.

As of September 30, 2010, there were no full time employees at Calando. Two former employees of Calando have been hired by Arrowhead and focus on managing Calando's ongoing clinical trial.

Unidym, Inc.

Overview

Unidym is a leader in carbon nanotube-based transparent, conductive films (TCFs) for the electronics industry. TCFs are a critical component in devices such as touch panels, displays, and thin-film solar cells. For example, both touch panels and LCDs typically employ two TCF layers per device. Unidym's TCFs offer substantial advantages over the incumbent technology, indium-based metal oxides, including: improved durability, lower processing costs, and lower overall cost structure.

Unidym's products are based on electronics-grade carbon nanotubes (CNTs), a class of molecules with multiple unique properties. For instance, some varieties conduct electricity better than copper, are stronger than steel, and may be synthesized in bulk quantities. In 2005, the CNT field was highly fragmented, and Arrowhead sought to consolidate the intellectual property for the technology in an effort to create a dominant position in high value CNTs. As a result of licensing from universities and acquisitions of three CNT-related companies, Unidym owns or has exclusive license to a large portfolio of over 100 key CNT-related patents and patent applications. The Company believes Unidym holds foundational intellectual property surrounding high value electronics-grade CNT manufacturing and processing. With this strong patent portfolio and significant experience applying this technology to electronics markets, Unidym is beginning to make modest sales of its TCF film to device manufacturers and believes that it is well-positioned to increase sales in 2011. Unidym's management team is focused on customer interaction to optimize its products to meet customer specifications with a goal of generating product sales for touch screens in the near term.

Collaborations and Partnerships

Unidym has several ongoing programs with various partners to incorporate its transparent conductive films into touch panels and displays. In 2010, a leading Japanese touch panel maker demonstrated three dimensional touch panels, based on Unidym's films, at the premier displays conference in North America, the Society of Informational Display. Unidym also announced new joint development agreements with Tokyo Electron to develop and commercialize manufacturing equipment for printable CNT-based displays and solar cells as well as Guardian Industries to develop and commercialize CNT coated glass products. Unidym also continued to collaborate with Samsung Electronics in CNT-based displays and Nippon Kayaku in CNT-based solar cells.

In addition to these efforts in Unidym's core focus of electronics, Unidym is seeking to leverage its broad intellectual property portfolio in other areas through its licensing and other collaborative programs. To date, Unidym has out-licensed its intellectual property to a number of different companies, including Samsung, Ensysce Biosciences, Nexeon Medsystems, DuPont, Nano-C, Nano-Lab, Torrey Pines, Continental Carbon, and several other companies.

Production

Production of Carbon Nanotube-Based Transparent Conductive Films

Unidym's film production model involves in-house pilot production and outsourced supply of larger volumes of a proprietary grade of CNTs, formulation of those CNTs into a coating ink, and then shipment of that ink to an outsourced coating partner or customer for deposition. To conserve cash and pursue a strategy designed to yield revenues in the short term, Unidym is exploring partnerships or outsourcing within this supply chain.

Unidym has in-house deposition or coating equipment which is used for the deposition of CNTs onto plastic or glass substrates in sample quantities. Unidym has also tested production samples from several coating subcontractors. The use of outsourced coating partners for its touch panel films would take advantage of the substantial excess capacity left in the coating industry by the decrease in demand for photographic film. Unidym expects that, given the abundance of these subcontractors and the availability of cost effective subcontract capacity, there will be no need to bring production capacity in-house in the near term.

Production of Carbon Nanotubes

Unidym has historically produced carbon nanotubes in-house. In line with its strategy to reduce costs and work with manufacturing partners, in May 2009, Unidym transferred a portion of its assets for CNT production to CCNI, a manufacturer of CNTs and carbon black, has been working with CCNI and other vendors for the production of Unidym's CNT supply needs. Unidym anticipates retaining some limited in-house CNT production capability for product improvements and as a second source of supply. Unidym plans to manufacture CNT inks and is negotiating with potential partners to manufacture and sell films to customers.

Marketing and Sales

Unidym generated revenue from sales of thin films, sales of CNTs and sales of CNT-based ink in fiscal 2010. Future revenue is expected to be generated through direct product sales and license deals into relatively consolidated industries. In addition, Unidym has taken advantage of its extensive metrology equipment and excess space to create a small incubator for start-ups to defray a portion of the costs for its Sunnyvale facility. In the near term, Unidym does not expect to generate enough revenue to self-fund its operations. Unidym expects to continue to generate revenues through direct sales of its HIPCO-grade CNTs.

Competition

Unidym faces competition from a number of start-ups and established companies in its target markets. In the electronics industry, there are a number of start-up or private companies that are focused on the application or production of nanotubes including Automate, C-Nano, Eikos, Nantero and Southwest Nanotechnologies. More established companies with announced CNT programs include Brewer Sciences, DuPont, Honeywell, Samsung, Sumitomo and Toray. There are also potential competitors who are pursuing alternative nanotech-based approaches to the markets served by Unidym, including the start-up Cambrios and large Japanese companies such as Fujitsu.

Intellectual Property

Unidym controls an intellectual property portfolio containing over 100 foreign and domestic patents and patent applications. The portfolio contains patent claims directed to fundamental carbon nanotube compositions of matter, as well as carbon nanotube synthesis, purification, dispersion and functionalization. Furthermore, the portfolio contains claims to the use of carbon nanotubes in many different application areas including fibers, electronics, composite materials, energy storage/generation, medical devices and drug delivery. Some patents and patent applications are owned by Unidym (or co-owned with partners such as Continental Carbon and Tokyo Electron), but most are exclusively licensed from institutions such as Rice University, Georgia Tech, Clemson, SUNY, and California Institute of Technology (Caltech). Under its agreement with Clemson, Unidym has an exclusive license to U.S. Patents 7,265,174 and 7,750,071, which we believe have the earliest priority date of any patent claiming transparent, conductive films comprised of carbon nanotubes. Under its agreement with Caltech, Unidym has the right to sublicense U.S. Patent 5,424,054, which is the basic patent claiming small diameter nanotube composition of matter. Unidym also has the right to license an IP portfolio related to modified fullerene for non-therapeutic fields of use. A material portion of Unidym's intellectual property portfolio is exclusively licensed from Rice University. If the sum of Unidym's debts, liabilities and other obligations is greater than all of Unidym may lose rights to critical intellectual property.

Key Personnel

Mark Tilley, Ph.D is the CEO of Unidym. Dr. Tilley joined the Company after a nine-year tenure at DSM N.V., a \$12 billion Netherlands-based specialty performance materials and life sciences company. During his tenure, he worked in DSM's venturing arm, led marketing and technical teams, and built a nano-enabled flat panel displays materials business that was acquired by Japan Synthetic Rubber in 2005. Dr. Tilley also co-founded Kriya Materials BV, a venture capital backed nano-materials and coatings company based in the Netherlands. Dr. Tilley has held marketing and R&D positions at SDC Coatings, a joint venture founded by Dow Corning and Pilkington Glass, Valspar and GE Plastics where he started his career at their Corporate R&D center as a Senior Scientist. He holds a BS degree in Chemistry from the University of Manchester Institute of Science and Technology in Manchester, UK, a Ph.D. from North Dakota State University in Fargo, and a M.B.A from Pepperdine University.

Unidym's Board of Directors is comprised of Mark Tilley, Christopher Anzalone, CEO and director of each Arrowhead, Calando, Nanotope and Leonardo, Edward W. Frykman and Charles McKenney, both Arrowhead directors. Independent directors are Dr. Bob Gower, former CEO of CNI, Ray McLaughlin, former CFO of CNI, and Malcolm Gillis, former President of Rice University.

At September 30, 2010, Unidym had 9 full-time employees.

Minority Investments

Nanotope, Inc.

Overview

Nanotope is a regenerative medicine company developing a suite of nanotechnology-based products customized to regenerate specific tissues: including neuronal, cartilaginous and vascular soft tissues. Its lead clinical candidates are focused on regenerating neurons and inhibiting scar tissue formation following traumatic spinal cord injury (SCI); restoring cartilage in joints damaged due to injury or osteoarthritis; and accelerating wound healing in poorly vascularized, ischemic tissue associated with diabetes and peripheral artery disease (PAD). Nanotope and its partners have demonstrated the efficacy of these lead compounds in multiple animal models. Importantly, the company's therapeutic platform consists of synthetic, fully degradable, customizable gel scaffolds that do not involve the use of embryonic stem cells. Instead, the products work with surviving cells in the patient's body to spur tissue regeneration. In October 2010, Nanotope entered into an agreement with Smith & Nephew, plc group to further develop its cartilage regeneration product for human healthcare markets. Smith & Nephew is a global medical technology company with leadership positions in Orthopedics; including Reconstruction, Trauma and Clinical therapies; Endoscopy; including Sports Medicine; and Advanced Wound Management. This represents Nanotope's first commercial transaction and demonstrates the company's commitment to bring technological innovations in regenerative medicine to the clinical market.

Related Party Interests

Nanotope was co-founded by Arrowhead's CEO, Dr. Christopher Anzalone, through the Benet Group, now dissolved, a private investment entity solely owned and managed by Dr. Anzalone. Dr. Anzalone owns approximately 14.2% of Nanotope's outstanding voting securities. Dr. Anzalone does not hold options, warrants or any other rights to acquire securities of Nanotope. Dr. Anzalone has the right to appoint a representative to the Board of Directors of Nanotope. Dr. Anzalone currently serves on the Nanotope Board in a seat reserved for Nanotope's CEO and another individual holds the seat designated by Dr. Anzalone. Dr. Anzalone has served as President and Chief Executive Officer of Nanotope since its formation and continues to serve in these capacities. Dr. Anzalone has not received any compensation for his work on behalf of Nanotope since joining the Company on December 1, 2007. Dr. Anzalone has also waived his right to any unpaid compensation accrued for work done on behalf of Nanotope before he joined the Company.

Leonardo Biosystems, Inc.

Overview

Leonardo is a drug delivery company that employs a novel multi-stage drug delivery mechanism aimed at dramatically increasing targeting efficiency of pharmaceuticals. Arrowhead has an approximately 5% ownership interest in Leonardo. Leonardo's silicon microparticulate technology involves transporting a therapeutic agent past multiple biological barriers using multiple carriers, each optimized for a specific barrier. Leonardo's proprietary primary vehicles are designed to preferentially accumulate at tumor vasculature. Secondary carriers are then released from the primary carriers that are designed to accumulate around tumor cells and release their therapeutic payloads. Animal testing suggests that Leonardo's platform enables significantly increased targeting and also provides sustained release. During 2010, Leonardo received an initial tranche of \$1.25 million of an overall \$2.5 million award from the State of Texas Emerging Technology Fund. Leonardo is currently focused on scaling up a commercializable manufacturing process and broadening the demonstrated areas where the technology delivers value. Arrowhead is interested in increasing its stake in Leonardo if the opportunity arises, Arrowhead has the capital resources and Leonardo's technology development continues to move forward.

Related Party Interests

Like Nanotope, Leonardo was co-founded by the Company's Chief Executive Officer, Dr. Christopher Anzalone. Dr. Anzalone owns approximately 16% of the outstanding stock of Leonardo. Dr. Anzalone does not hold options, warrants or any other rights to acquire securities of Leonardo. Dr. Anzalone has the right to appoint a representative to the Board of Directors of Leonardo and Dr. Anzalone currently serves on the Leonardo Board. Dr. Anzalone has served as President and Chief Executive Officer of Leonardo since its formation until February 2010 when a new CEO was hired. Dr. Anzalone has not received any compensation for his work on behalf of Leonardo since joining the Company on December 1, 2007. Dr. Anzalone has also waived his right to any unpaid compensation accrued for work done on behalf of Leonardo before he joined the Company.

Academic Partnerships

Since inception, Arrowhead has worked with some of the most outstanding academic institutions in the country, including the Caltech, Stanford University, Duke University and the University of Florida, in critical areas such as stem cell research, carbon electronics and molecular diagnostics. This has provided the Company with a deep network in the academic community, insight into cutting edge technologies and a world class scientific advisory board. Through these partnerships, Arrowhead has gained access to exclusive rights that have formed the basis for the Company's subsidiaries and minority investments and has leveraged university resources to further develop and test technology in a highly cost effective way. The collaborations with academic scientists have included technology licenses and options to license technology, sponsored research, donations to the labs of individual scientists and use of university facilities that are made available to development stage companies. In prior years, Arrowhead devoted significant capital resources to sponsored research. As the Subsidiaries have matured, the Company has decreased its reliance on sponsored research for technology development and sponsored research expense has decreased. As of September 30, 2010, Arrowhead had one active sponsored research agreement at Duke University through Unidym. Depending on capital resources, Arrowhead is likely to continue to invest in nanoscience research and development through sponsored research agreements at universities.

ITEM 1A. RISK FACTORS

We are a development stage company and we have limited historical operations. We urge you to consider our likelihood of success and prospects in light of the risks, expenses and difficulties frequently encountered by entities at similar stages of development.

The following is a summary of certain risks we face. They are not the only risks we face. Additional risks of which we are not presently aware or that we currently believe are immaterial may also harm our business and results of operations. The trading price of our common stock could decline due to the occurrence of any of these risks, and investors could lose all or part of their investment. In assessing these risks, investors should also refer to the other information contained or incorporated by reference in our other filings with the Securities and Exchange Commission.

Risks Related to Our Financial Condition

We have limited cash resources

Our plan of operations is to provide substantial amounts of development funding and financial support to our subsidiaries over an extended period of time. The Company adopted a cash conservation strategy that reduced corporate expenses and scaled back our financial support for our two major subsidiaries, Unidym and Calando. This has influenced Unidym's decision to engage partners for its capital-intensive bulk CNT manufacturing and concentrate its resources on the development of CNT inks and CNT-based film products, and Calando's decision to curtail internal R&D efforts for its drug delivery platforms and clinical candidates and seek partners for future development of its drug candidates. Management continues operate under a plan to conserve cash resources while selectively investing in near-term opportunities. The Company's management anticipates that the Company will be able to satisfy the cash requirements of its operations through at least the next twelve months with current cash resources.

However, we may need to obtain additional capital to further our development efforts, and we intend to seek additional capital by out-licensing technology, selling one or more of our subsidiaries, securing funded partnerships, conducting one or more private placements of equity securities of the Company or our subsidiaries, selling additional securities in a registered public offering, or through a combination of one or more of such financing alternatives. However, there can be no assurance that we will be successful in any of these endeavors or, if we are successful, that such transactions will be accomplished on favorable terms. If we are unable to obtain additional capital, we will implement additional cash saving measures, which could materially harm our business and our ability to achieve cash flow in the future, including delaying or reducing implementation of certain aspects of our plan of operations. Even if we are successful in obtaining additional capital, because we and each subsidiary are separate entities, it could be difficult or impossible to allocate funds in a way that meets the needs of all entities.

The current financial market conditions may exacerbate certain risks affecting our business.

Neither the Company nor our subsidiaries generate substantial revenue, and our operations and research and development activities have been primarily funded through the sale of Company securities and securities of our subsidiaries. Current market conditions may impair our ability to raise the capital we need. If we are unable to secure additional cash resources from the sale of securities or other sources, it could become necessary to further slow, interrupt or close down development efforts. In addition, we may have to make additional reductions in expenses at the Company, which could impair our ability to manage our business and our subsidiaries. Even if investment capital is available to us, the terms may be onerous. If investment capital is needed and available to Unidym and/or Calando and the Company does not have the funds to make a pro rata investment, our ownership interest could be diluted. The sale of additional Company stock to fund operations could result in significant dilution to stockholders.

The strategy for eventual monetization of our subsidiaries will likely depend on our ability to exit our ownership position in each subsidiary in an orderly manner. Exit opportunities could include an initial public offering ("IPO") for the subsidiary or acquisition of the subsidiary by another company. During the recent economic recession, companies have been adopting conservative acquisition strategies and, even if there is interest, they may not be able to acquire our subsidiaries on terms that are attractive to us. These factors could reduce the realizable return on our investment if we are able to sell a subsidiary. Additionally, the market for IPOs continues to be very limited, which limits public exit opportunities for our subsidiaries.

We may not be able to maintain our listing on the NASDAQ Capital Market.

Our Common Stock trades on the NASDAQ Capital Market, which has certain compliance requirements for continued listing of common stock. In the past, we have been subject to delisting procedures due to a drop in the price of our Common Stock. If our minimum closing bid price per share falls below \$1.00 for a period of 30 consecutive trading days in the future, we may again be subject to delisting procedures. We must also meet additional continued listing requirements contained in NASDAQ Marketplace Rule 5550(b), which requires that we have (1) a minimum of \$2,500,000 in stockholders' equity, (2) \$35,000,000 market value of listed securities held by non-affiliates or (3) \$500,000 of net income from continuing operations for the most recently completed fiscal year (or two of the three most recently completed fiscal years). As of December 20, 2010, based on our closing price as of that day, the market value of our securities held by non-affiliates was approximately \$65,000,000.

As of the close of business on December 8, 2010, our Common Stock had a closing bid price of \$0.90 per share, and has had a bid price of less than \$1.00 for 30 consecutive days. Accordingly, on December 8, 2010, we received a deficiency letter from the NASDAQ Stock Market indicating that, based on the Company's closing bid price for the last 30 consecutive business days, the Company does not comply with the minimum bid price of \$1.00 per as set forth in NASDAQ Marketplace Rule 5550(a)(2).

In accordance with NASDAQ Marketplace Rule 5810(c)(3)(A), the Company has a grace period of 180 calendar days, or until June 6, 2011 to regain compliance with the minimum closing bid price requirement for continued listing. In order to regain compliance, the minimum closing price per share of the Company's common stock must be at least \$1.00 for a minimum of ten consecutive business days. In the event the Company does not regain compliance by June 6, 2011, the Company may be afforded an additional 180 day compliance period, provided it demonstrates that it meets all other applicable standards for initial listing on the NASDAQ Capital Market (except the bid price requirement). If the Company fails to regain compliance after the second grace period, the Company's stock will be subject to delisting by NASDAQ.

Delisting could reduce the ability of our shareholders to purchase or sell shares as quickly and as easily as they have done historically. For instance, failure to obtain listing on another market or exchange may make it more difficult for traders to sell our securities. Broker-dealers may be less willing or able to sell or make a market in our Common Stock. Not maintaining our NASDAQ Capital Market listing may (among other effects):

- result in a decrease in the trading price of our Common Stock;
- lessen interest by institutions and individuals in investing in our Common Stock;
- · make it more difficult to obtain analyst coverage; and
- make it more difficult for us to raise capital in the future.

We have debt on our consolidated balance sheet, which could have consequences if we were unable to repay the principal or interest due

Calando has a \$500,000 unsecured convertible promissory note outstanding. The note bears 10% interest accrued annually, matured in November 2010 and is payable upon demand. The note is payable at two times face value in certain events, including, among other things, the license of Calando's siRNA delivery system. An amendment to extend the note is currently being negotiated, however if the note is not extended, the Company has the ability and intent to repay this note. However, if Calando is unable to meet its obligations to the bearer of the note, Arrowhead may also not be in a position to lend Calando sufficient cash to pay such demand note. Unless other sources of financing become available, this could result in Calando's insolvency.

Our subsidiaries have entered into technology license agreements with third parties that require us to satisfy obligations to keep them effective and, if these agreements are terminated, our technology and our business would be seriously and adversely affected.

Through our subsidiaries, we have entered into exclusive, long-term license agreements with Rice University, California Institute of Technology, Alnylam Pharmaceuticals, Inc. and other entities to incorporate their proprietary technologies into our proposed products. These license agreements require us to pay royalties and satisfy other conditions, including conditions related to the commercialization of the licensed technology. We cannot give any assurance that we will successfully incorporate these technologies into marketable products or, if we do, whether sales will be sufficient to recover the amounts that we are obligated to pay to the licensors. Failure by us to satisfy our obligations under these agreements, including the solvency requirements set forth in our license agreement with Rice university, may result in the modification of the terms of the licenses, such as by rendering them non-exclusive, or may give our licensors the right to terminate their respective agreement with us, which would limit our ability to implement our current business plan and harm our business and financial condition.

Risks Related to Our Business Model and Company

We are a development stage company and our success is subject to the substantial risks inherent in the establishment of new business ventures.

The implementation of our business strategy is still in the development stage. We currently own majority interests in two subsidiary companies, investments in two early-stage biotech companies and, through Unidym, one university research project at Duke University. Our business and operations should be considered to be in the development stage and subject to all of the risks inherent in the establishment of a new business venture. Accordingly, our intended business and operations may not prove to be successful in the near future, if at all. Any future success that we might enjoy will depend upon many factors, several of which may be beyond our control, or which cannot be predicted at this time, and which could have a material adverse effect upon our financial condition, business prospects and operations, and the value of an investment in the Company.

Calando may be unable to find additional partners to license its technologies.

As part of our cash conservation strategy that scales back our financial support for Calando at this time, Calando has closed its laboratory facilities, eliminated its technical employees and has shifted its focus to licensing its technologies to partners. Currently, Calando has one licensing partner, but there can be no assurance that Calando will be able to find additional partners to license its technologies upon terms favorable to Calando.

If Calando licenses its technologies, it will lose a considerable amount of control over its intellectual property and may not receive adequate licensing revenues in exchange.

The business model of our subsidiaries has historically been to develop new nanotechnologies and to exploit the intellectual property created through the research and development process to develop commercially successful products. Calando has licensed a portion of its technology to Cerulean Pharma, Inc. and intends to pursue further licensing arrangements with other companies. A significant portion of the potential value from these licenses is tied to the achievement of the development and sales milestones, which we cannot control. As Calando licenses its technology to other companies, it will lose control over certain of the technologies it licenses and will be unable to control the development and commercialization of its technologies, which could result in the failure to achieve performance milestones that would represent a significant portion of the total value of any license transaction. In addition, Calando's licensees may not be successful in the further commercialization of Calando's technologies and anticipated revenues from such license agreements may be less than expected or may not be paid at all.

There are substantial risks inherent in attempting to commercialize new technological applications, and, as a result, we may not be able to successfully develop nanotechnology for commercial use.

The Company finances research and development of nanotechnology, which is a new and unproven field. Our scientists and engineers are working on developing technology in various stages. However, such technology's commercial feasibility and acceptance is unknown. Scientific research and development requires significant amounts of capital and takes a long time to reach commercial viability, if at all. To date, our research and development projects have not produced commercially viable applications, and may never do so. During the research and development process, we may experience technological barriers that we may be unable to overcome. For example, our scientists must determine how to design and develop nanotechnology applications for potential products designed by third parties for use in cost-effective manufacturing processes. Because of these uncertainties, it is possible that none of our potential applications will be successfully developed. If we are unable to successfully develop nanotechnology applications for commercial use, we will be unable to generate revenue or build a sustainable or profitable business.

Because we have not generated significant revenues to cover our operating expenses, we are dependent on raising additional capital from investors or lenders.

To date, we have only generated a small amount of revenue as a result of our current plan of operations. Given our strategy of financing new and unproven technology research, there is no assurance we would ever generate significant revenues. Our revenue-producing opportunities depend on liquidity events within our subsidiaries, such as a sale of the subsidiary, licensing transaction or initial public offering. We cannot be certain that we will be able to create a liquidity event for any of our subsidiaries and, even if we are able to, we cannot be certain of the timing or the potential proceeds to Arrowhead as a stockholder. Accordingly, our revenue prospects are uncertain and we must plan to finance our operations through the sales of equity securities or debt financing. If we are unable to continue raising operating capital from these sources, we may be forced to curtail or cease our operations.

We will need to achieve commercial acceptance of our applications to generate revenues and achieve profitability.

Even if our research and development yields technologically feasible applications, we may not successfully develop commercial products, and even if we do, we may not do so on a timely basis. Even if our research efforts are technologically successful, it could take several years before this technology will be commercially viable. During this period, superior competitive technologies may be introduced or customer needs may change, which could diminish or extinguish the commercial uses for our applications. Because nanotechnology is an emerging field, the degree to which potential consumers will adopt nanotechnology-enabled products is uncertain. We cannot predict when significant commercial market acceptance for nanotechnology-enabled products will develop, if at all, and we cannot reliably estimate the projected size of any such potential market. If markets fail to accept nanotechnology-enabled products, we may not be able to generate revenues from the commercial application of our technologies. Our revenue growth and achievement of profitability will depend substantially on our ability to introduce new technological applications to manufacturers for products accepted by customers. If we are unable to cost-effectively achieve acceptance of our technology among original equipment manufacturers and customers, or if the associated products do not achieve wide market acceptance, our business will be materially and adversely affected.

We will need to establish additional relationships with strategic and development partners to fully develop and market our products.

We do not possess all of the resources necessary to develop and commercialize products that may result from our technologies on a mass scale. Unless we expand our product development capacity and enhance our internal marketing, we will need to make appropriate arrangements with strategic partners to develop and commercialize current and future products. If we do not find appropriate partners, or if our existing arrangements or future agreements are not successful, our ability to develop and commercialize products could be adversely affected. Even if we are able to find collaborative partners, the overall success of the development and commercialization of product candidates in those programs will depend largely on the efforts of other parties and is beyond our control. In addition, in the event we pursue our commercialization strategy through collaboration, there are a variety of technical, business and legal risks, including:

- a development partner would likely gain access to our proprietary information, potentially enabling the partner to develop products without us or design around our intellectual property;
- we may not be able to control the amount and timing of resources that our collaborators may be willing or able to devote to the development or commercialization of our product candidates or to their marketing and distribution; and
- disputes may arise between us and our collaborators that result in the delay or termination of the research, development or commercialization of our product candidates or that result in costly litigation or arbitration that diverts our management's resources.

The occurrence of any of the above risks could impair our ability to generate revenues and harm our business and financial condition.

We need to retain a controlling interest, by ownership, contract or otherwise, in Unidym and Calando in order to avoid potentially being deemed an investment company under the Investment Company Act of 1940.

Companies that have more than 100 U.S. stockholders or are publicly traded in the U.S. or are, or hold themselves out as being, engaged primarily in the business of investing, reinvesting or trading in securities are subject to regulation under the Investment Company Act of 1940. Unless a substantial part of our assets consists of, and a substantial part of our income is derived from, interests in majority-owned subsidiaries and companies that we primarily control, whether by contract or otherwise, we may be required to register and become subject to regulation under the Investment Company Act. Because Investment Company Act regulation is, for the most part, inconsistent with our strategy of actively managing and operating our portfolio companies, a requirement to operate our business as a registered investment company would restrict our operations and require additional resources for compliance.

If we are deemed to be, and are required to register as, an investment company, we will be forced to comply with substantive requirements under the Investment Company Act, including:

- limitations on our ability to borrow;
- limitations on our capital structure;
- restrictions on acquisitions of interests in associated companies;
- prohibitions on transactions with our affiliates;
- · restrictions on specific investments; and
- compliance with reporting, record keeping, voting, proxy disclosure and other rules and regulations.

In order to avoid regulation under the Investment Company Act, we may choose to make additional pro rata investments in Unidym and Calando to maintain a controlling interest.

Nanotechnology-enabled products are new and may be viewed as being harmful to human health or the environment.

There is public concern regarding the human health, environmental and ethical implications of nanotechnology that could impede market acceptance of products developed through these means. Nanotechnology-enabled products could be composed of materials such as carbon, silicon, silicon carbide, germanium, gallium arsenide, gallium nitride, cadmium selenide or indium phosphide, which may prove to be unsafe or harmful to human health or to the environment because of the size, shape or composition of the nanostructures. For this reason, these nanostructures may prove to present risks to human health or the environment that are different from and greater than the better understood risks that may be presented by the constituent materials in non-nanoscale forms. Because of the potential, but at this point unknown, risks associated with certain nanomaterials, government authorities in the U.S. or individual states, and foreign government authorities could, for social or other purposes, prohibit or regulate the use of some or all nanotechnologies. The U.S. Environmental Protection Agency has in that regard recently taken steps towards regulation of the manufacture and use of certain nanotechnology-enabled materials, including those containing carbon nanotubes or nanosilver. Further, the U.S. National Academy of Sciences/National Research Council concluded that the U.S. government needs to develop a more robust and coordinated plan for addressing the potential environmental, health, and safety risks of nanomaterials. The regulation and

limitation of the kinds of materials used in or used to develop nanotechnology-enabled products, or the regulation of the products themselves, could halt or delay the commercialization of nanotechnology-enabled products or substantially increase the cost, which will impair our ability to achieve revenue from the license of nanotechnology applications.

We may not be able to effectively secure first-tier research and development projects when competing against other ventures.

Our business plan requires that we identify and successfully acquire promising technologies. However, we compete with a substantial number of other companies that fund early-stage, scientific research at universities to secure rights to promising technologies. In addition, many venture capital firms and other institutional investors invest in companies seeking to commercialize various types of emerging technologies. Many of these companies have greater financial, scientific and commercial resources than us. Therefore, we may not be able to secure the opportunity to finance first-tier research and commercialization projects. Furthermore, should any commercial undertaking by us prove to be successful, there can be no assurance competitors with greater financial resources will not offer competitive products and/or technologies.

We rely on outside sources for various components and processes for our products.

We rely on third parties for various components and processes for our products. While we try to have at least two sources for each component and process, we may not be able to achieve multiple sourcing because there may be no acceptable second source, other companies may choose not to work with us, or the component or process sought may be so new that a second source does not exist, or does not exist on acceptable terms. In addition, due to the continued tightening of global credit markets, there may be a disruption or delay in the performance of our third-party contractors, suppliers or collaborators. If such third parties are unable to satisfy their commitments to us, our business would be adversely affected. Therefore, it is possible that our business plans will have to be slowed down or stopped completely at times due to our inability to obtain required raw materials, components and outsourced processes at an acceptable cost, if at all, or to get a timely response from vendors.

We must overcome the many obstacles associated with integrating and operating varying business ventures to succeed.

Our model to integrate and oversee the strategic direction of various subsidiaries and research and development projects presents many risks, including:

- the difficulty of integrating operations and personnel; and
- · the diversion of our management's attention as a result of evaluating, negotiating and integrating acquisitions or new business ventures.

If we are unable to timely and efficiently design and integrate administrative and operational support for our subsidiaries, we may be unable to manage projects effectively, which could adversely affect our ability to meet our business objectives and the value of an investment in the Company could decline.

In addition, consummating acquisitions and taking advantage of strategic relationships could adversely impact our cash position, and dilute stockholder interests, for many reasons, including:

- · changes to our income to reflect the amortization of acquired intangible assets, including goodwill;
- · interest costs and debt service requirements for any debt incurred to fund our growth strategy; and
- any issuance of securities to fund our operations or growth, which dilutes or lessens the rights of current stockholders.

Our success depends on the attraction and retention of senior management and scientists with relevant expertise.

Our future success will depend to a significant extent on the continued services of our key employees, including Dr. Anzalone, our CEO. In addition, we rely on several key executives to manage each of our subsidiaries. We do not maintain key man life insurance for any of our executives. Our ability to execute our strategy also will depend on our ability to continue to attract and retain qualified scientists, sales, marketing and additional managerial personnel. If we are unable to find, hire and retain qualified individuals, we could have difficulty implementing our business plan in a timely manner, or at all. We may need to terminate additional employees, including senior management and technical employees, or such employees may seek other employment which may result in the loss of valuable know-how and that development efforts could be negatively affected.

Members of our senior management team and Board may have a conflict of interest in also serving as officers and/or directors of our subsidiaries.

While we expect that our officers and directors who also serve as officers and/or directors of our subsidiaries will comply with their fiduciary duties owed to our stockholders, they may have conflicting fiduciary obligations to our stockholders and the minority stockholders of our subsidiaries. Specifically, Dr. Anzalone, our CEO and President, is the founder, CEO and a board member of each of Nanotope, a regenerative medicine company in which the Company owns a 23% interest, and Leonardo, a drug delivery company

in which the Company owns a 4.9% interest. Dr. Anzalone owns a noncontrolling interest in the stock of each of Nanotope and Leonardo. To the extent that any of our directors choose to recuse themselves from particular Board actions to avoid a conflict of interest, the other members of our Board of Directors will have a greater influence on such decisions.

Our efforts pertaining to the pharmaceutical industry are subject to additional risks.

Our subsidiary, Calando, as well as minority investments Nanotope and Leonardo, are focused on technology related to new and improved pharmaceutical candidates. Drug development is time consuming, expensive and risky. Even product candidates that appear promising in the early phases of development, such as in early animal and human clinical trials, often fail to reach the market for a number of reasons, such as:

- clinical trial results may be unacceptable, even though preclinical trial results were promising;
- inefficacy and/or harmful side effects in humans or animals;
- · the necessary regulatory bodies, such as the U.S. Food and Drug Administration, may not approve our potential product for the intended use; and
- manufacturing and distribution may be uneconomical.

Clinical trial results are frequently susceptible to varying interpretations by scientists, medical personnel, regulatory personnel, statisticians and others, which often delays, limits, or prevents further clinical development or regulatory approvals of potential products. Additionally, clinical trials can take years to complete site selection and the enrollment of patients. If the subsidiaries' technology is not cost effective or if the associated drug products do not achieve wide market acceptance, the value of a subsidiary would be materially and adversely affected.

Any drugs developed by our subsidiaries may become subject to unfavorable pricing regulations, third-party reimbursement practices or healthcare reform initiatives, thereby harming our business.

Increasing expenditures for healthcare have been the subject of considerable public attention in the U.S. Both private and government entities are seeking ways to reduce or contain healthcare costs. Numerous proposals that would affect changes in the U.S. healthcare system have been introduced or proposed in Congress and in some state legislatures, including reductions in the cost of prescription products and changes in the levels at which consumers and healthcare providers are reimbursed for purchases of pharmaceutical products.

The ability of Calando and our minority investments, Nanotope and Leonardo, to market products successfully (either on their own or in partnership with other companies) will depend in part on the extent to which third-party payers are willing to reimburse patients for the costs of their products and related treatments. These third-party payers include government authorities, private health insurers and other organizations, such as health maintenance organizations. Third party payers are increasingly challenging the prices charged for medical products and services. In addition, the trend toward managed healthcare and government insurance programs could result in lower prices and reduced demand for the products of these companies. Cost containment measures instituted by healthcare providers and any general healthcare reform could affect their ability to sell products and may have a material adverse effect on them, thereby diminishing the value of the Company's interest in these subsidiaries or any anticipated milestone or royalty payments. We cannot predict the effect of future legislation or regulation concerning the healthcare industry and third party coverage and reimbursement on our business.

There may be a difference in the investment valuations that we used when making initial and subsequent investments in our subsidiaries and minority investments and actual market values.

Our investments in our subsidiaries and noncontrolling interests were the result of negotiation with subsidiary management and equity holders, and the investment valuations may not have been independently verified. Traditional methods used by independent valuation analysts include a discounted cash flow analysis and a comparable company analysis. We have not generated a positive cash flow to date and do not expect to generate significant cash flow in the near future. Additionally, we believe that there exist few comparable public companies to provide meaningful valuation comparisons. Accordingly, we have not sought independent valuation analysis in connection with our investments and may have invested in our various holdings at higher or lower valuations than an independent source would have recommended. There may be no correlation between the investment valuations that we used over the years for our investments and the actual market values. If we should eventually sell all or a part of any of our consolidated business or that of a subsidiary, the ultimate sale price may be for a value substantially different than previously determined by us, which could materially and adversely impair the value of our Common Stock.

Risks Related to Our Intellectual Property

If Unidym is unable to raise additional cash or pay its debts, Unidym may lose rights to critical intellectual property.

Unidym is required to meet certain financial covenants pursuant its Rice University license agreement. The Rice license includes financial covenants tested quarterly for compliance. If Unidym fails to meet the financial covenants, the Rice license may terminate. If this should happen, the value of Unidym's intellectual property portfolio would be significantly and adversely affected and Unidym would likely lose patent protection for its products and licensing opportunities for the majority of its CNT intellectual portfolio.

Our ability to protect our patents and other proprietary rights is uncertain, exposing us to the possible loss of competitive advantage.

Our subsidiaries have licensed rights to pending patents and have filed and will continue to file patent applications. The researchers sponsored by us may also file patent applications that we choose to license. If a particular patent is not granted, the value of the invention described in the patent would be diminished. Further, even if these patents are granted, they may be difficult to enforce. Even if successful, efforts to enforce our patent rights could be expensive, distracting for management, cause our patents to be invalidated, and frustrate commercialization of products. Additionally, even if patents are issued and are enforceable, others may independently develop similar, superior or parallel technologies to any technology developed by us, or our technology may prove to infringe upon patents or rights owned by others. Thus, the patents held by or licensed to us may not afford us any meaningful competitive advantage. If we are unable to derive value from our licensed or owned intellectual property, the value of your investment may decline.

Our ability to develop and commercialize products will depend on our ability to enforce our intellectual property rights and operate without infringing the proprietary rights of third parties.

Our ability and the ability of our subsidiaries to develop and commercialize products based on their respective patent portfolios, will depend, in part, on our ability and the ability of our subsidiaries to enforce those patents and operate without infringing the proprietary rights of third parties. There can be no assurance that any patents that may issue from patent applications owned or licensed by us or any of our subsidiaries will provide sufficient protection to conduct our respective businesses as presently conducted or as proposed to be conducted, or that we or our subsidiaries will remain free from infringement claims by third parties.

We may be subject to patent infringement claims, which could result in substantial costs and liability and prevent us from commercializing our potential products.

Because the nanotechnology intellectual property landscape is rapidly evolving and interdisciplinary, it is difficult to conclusively assess our freedom to operate without infringing on third party rights. However, we are currently aware of certain patent rights held by third parties that, if found to be valid and enforceable, could be alleged to render one or more of our business lines infringing. If a claim should be brought and is successful, we may be required to pay substantial damages, be forced to abandon any affected business lines and/or seek a license from the patent holder. In addition, any patent infringement claims brought against us or our subsidiaries, whether or not successful, may cause us to incur significant expenses and divert the attention of our management and key personnel from other business concerns. These could negatively affect our results of operations and prospects. There can also be no assurance that patents owned or licensed by us or our subsidiaries will not be challenged by others.

In addition, if our potential products infringe the intellectual property rights of third parties, these third parties may assert infringement claims against our customers, and we may be required to indemnify our customers for any damages they suffer as a result of these claims. The claims may require us to initiate or defend protracted and costly litigation on behalf of customers, regardless of the merits of these claims. If any of these claims succeed, we may be forced to pay damages on behalf of our customers or may be required to obtain licenses for the products they use. If we cannot obtain all necessary licenses on commercially reasonable terms, we may be unable to continue selling such products.

The technology licensed by our subsidiaries from various third parties may be subject to government rights and retained rights of the originating research institutions.

We license technology from Caltech, Rice University, and other universities and companies. Our licensors may have obligations to government agencies or universities. Under their agreements, a government agency or university may obtain certain rights over the technology that we have developed and licensed, including the right to require that a compulsory license be granted to one or more third parties selected by the government agency.

In addition, our collaborators often retain certain rights under their agreements with us, including the right to use the underlying technology for noncommercial academic and research use, to publish general scientific findings from research related to the technology, and to make customary scientific and scholarly disclosures of information relating to the technology. It is difficult to monitor whether our collaborators limit their use of the technology to these uses, and we could incur substantial expenses to enforce our rights to our licensed technology in the event of misuse.

Risks Related to Regulation of Our Products

Our corporate compliance program cannot guarantee that we are in compliance with all applicable federal and state regulations.

Our operations, including our research and development and our commercialization efforts, such as clinical trials, manufacturing and distribution, are subject to extensive federal and state regulation. While we have developed and instituted a corporate compliance program, we cannot be assured that the Company or our employees are, or will be in compliance with all potentially applicable federal and state regulations or laws. If we fail to comply with any of these regulations or laws, a range of actions could result, including, but not limited to, the termination of clinical trials, the failure to approve a commercialized product, significant fines, sanctions, or litigation, any of which could harm our business and financial condition.

If export controls affecting our products are expanded, our business will be adversely affected.

The federal government regulates the sale and shipment of numerous technologies by U.S. companies to foreign countries. Our subsidiaries may develop products that might be useful for military and antiterrorism activities. Accordingly, federal government export regulations could restrict sales of these products in other countries. If the federal government places burdensome export controls on our technology or products, our business would be materially and adversely affected. If the federal government determines that we have not complied with the applicable export regulations, we may face penalties in the form of fines or other punishment.

Risks Related to our Stock

Stockholder equity interest may be substantially diluted in any additional financing.

Our certificate of incorporation authorizes the issuance of 145,000,000 shares of Common Stock and 5,000,000 shares of Preferred Stock, on such terms and at such prices as our Board of Directors may determine. As of September 30, 2010, 71,720,137 shares of Common Stock and no shares of Preferred Stock were issued and outstanding. As of September 30, 2010, 8,123,338 shares were reserved for issuance upon exercise of outstanding options. As of September 30, 2010, there were warrants outstanding to purchase 25,672,595 shares of Common Stock. The issuance of additional securities in financing transactions by us or through the exercise of options or warrants will dilute the equity interests of our existing stockholders, perhaps substantially, and might result in dilution in the tangible net book value of a share of our Common Stock, depending upon the price and other terms on which the additional shares are issued.

Our Common Stock price has fluctuated significantly over the last several years and may continue to do so in the future, without regard to our results of operations and prospects.

Because we are a development stage company, there are few objective metrics by which our progress may be measured. Consequently, we expect that the market price of our Common Stock will likely continue to fluctuate significantly. We do not expect to generate substantial revenue from the license or sale of our nanotechnology for several years, if at all. In the absence of product revenue as a measure of our operating performance, we anticipate that investors and market analysts will assess our performance by considering factors such as:

- announcements of developments related to our business;
- developments in our strategic relationships with scientists within the nanotechnology field;
- our ability to enter into or extend investigation phase, development phase, commercialization phase and other agreements with new and/or existing partners;
- announcements regarding the status of any or all of our collaborations or products;
- market perception and/or investor sentiment regarding nanotechnology as the next technological wave;
- announcements regarding developments in the nanotechnology field in general;
- · the issuance of competitive patents or disallowance or loss of our patent rights; and
- quarterly variations in our operating results.

We will not have control over many of these factors but expect that they may influence our stock price. As a result, our stock price may be volatile and any extreme fluctuations in the market price of our Common Stock could result in the loss of all or part of your investment.

The market for purchases and sales of our Common Stock may be very limited, and the sale of a limited number of shares could cause the price to fall sharply.

Although our Common Stock is listed for trading on the NASDAQ Capital Market, our securities historically were relatively thinly traded. Investor trading pattern could serve to exacerbate the volatility of the price of the stock. For example, mandatory sales of our Common Stock by institutional holders could be triggered if an investment in our Common Stock no longer satisfies their investment standards and guidelines. Accordingly, it may be difficult to sell shares of Common Stock quickly without significantly depressing the value of the stock. Unless we are successful in developing continued investor interest in our stock, sales of our stock could continue to result in major fluctuations in the price of the stock.

If securities or industry analysts do not publish research reports about our business or if they make adverse recommendations regarding an investment in our stock, our stock price and trading volume may decline.

The trading market for our Common Stock will be influenced by the research and reports that industry or securities analysts publish about our business. We do not currently have and may never obtain research coverage by industry or securities analysts. Investors have many investment opportunities and may limit their investments to companies that receive coverage from analysts. If no industry or securities analysts commence coverage of the Company, the trading price of our stock could be negatively impacted. In the event we obtain industry or security analyst coverage, if one or more of the analysts downgrade our stock or comment negatively on our prospects, our stock price would likely decline. If one or more of these analysts cease to cover our industry or us or fails to publish reports about the Company regularly, our Common Stock could lose visibility in the financial markets, which could also cause our stock price or trading volume to decline

The market price of our Common Stock may be adversely affected by the sale of shares by our management or founding stockholders.

Sales of our Common Stock by our officers, directors and founding stockholders could adversely and unpredictably affect the price of those securities. Additionally, the price of our Common Stock could be affected even by the potential for sales by these persons. We cannot predict the effect that any future sales of our Common Stock, or the potential for those sales, will have on our share price. Furthermore, due to relatively low trading volume of our stock, should one or more large stockholders seek to sell a significant portion of its stock in a short period of time, the price of our stock may decline.

We may be the target of securities class action litigation due to future stock price volatility.

In the past, when the market price of a stock has been volatile, holders of that stock have often initiated securities class action litigation against the company that issued the stock. If any of our stockholders brought a lawsuit against us, we could incur substantial costs defending the lawsuit. The lawsuit could also divert the time and attention of our management.

We do not intend to declare cash dividends on our Common Stock.

We will not distribute cash to our stockholders unless and until we can develop sufficient funds from operations to meet our ongoing needs and implement our business plan. The time frame for that is inherently unpredictable, and you should not plan on it occurring in the near future, if at all.

Our Board of Directors has the authority to issue shares of "blank check" preferred stock, which may make an acquisition of the Company by another company more difficult.

We have adopted and may in the future adopt certain measures that may have the effect of delaying, deferring or preventing a takeover or other change in control of the Company that a holder of our Common Stock might consider in its best interest. Specifically, our Board of Directors, without further action by our stockholders, currently has the authority to issue up to 5,000,000 shares of preferred stock and to fix the rights (including voting rights), preferences and privileges of these shares ("blank check" preferred). Such preferred stock may have rights, including economic rights, senior to our Common Stock.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our corporate headquarters is located in Pasadena, California, and Unidym operates from a facility in Sunnyvale, California. The following table summarizes the company's leased facilities:

	Lab/Office Space	Monthly Rent	Lease Commencement	Lease Term
Arrowhead				
Pasadena, CA	7,388 sq ft	\$18,470	March 1, 2006	62 Months
Unidym				
Sunnyvale, CA	20,500 sq ft	\$26,650	October 1, 2008	60 Months

ITEM 3. LEGAL PROCEEDINGS

None.

ITEM 4. [REMOVED AND RESERVED]

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Price Range of Common Stock

Our Common Stock is traded on the NASDAQ Stock Market under the symbol "ARWR". The following table sets forth the high and low sales prices for a share of the Company's Common Stock during each period indicated.

		Fiscal Year Ended September 30,			
		201	0	2009	
	H	igh	Low	High	Low
1st Quarter	\$0	.70	\$0.51	\$1.78	\$0.77
2nd Quarter	1	.17	0.51	1.20	0.36
3rd Quarter	1	.85	1.03	0.70	0.40
4th Quarter	1	.17	0.85	0.71	0.31

Shares Outstanding

At December 13, 2010, an aggregate of 71,806,694 shares of the Company's Common Stock were issued and outstanding, and were owned by 279 stockholders of record, based on information provided by the Company's transfer agent.

Dividends

The Company has never paid dividends on its Common Stock and does not anticipate that it will do so in the foreseeable future.

Sales of Unregistered Securities

All information under this Item has been previously reported on our Current Reports on Form 8-K.

Repurchases of Equity Securities

We did not repurchase any shares of our Common Stock during fiscal 2010 or fiscal 2009.

ITEM 6. SELECTED FINANCIAL DATA

As a "Smaller Reporting Company," we are not required to provide this information.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Description of Business

Unless otherwise noted, (1) the term "Arrowhead" refers to Arrowhead Research Corporation, a Delaware corporation formerly known as InterActive Group, Inc., (2) the terms the "Company," "we," "us," and "our," refer to the ongoing business operations of Arrowhead and its Subsidiaries, whether conducted through Arrowhead or a subsidiary of Arrowhead, (3) the term "Subsidiaries" refers collectively to Calando Pharmaceuticals, Inc. ("Calando"), Unidym, Inc. ("Unidym"), Agonn Systems, Inc. ("Agonn") and Tego Biosciences Corporation ("Tego"), and (4) the term "Common Stock" refers to Arrowhead's Common Stock and the term "stockholder(s)" refers to the holders of Common Stock.

Overview

Arrowhead Research Corporation is a development stage nanotechnology holding company with an emphasis in nanomedicine. Since our inception, we have incurred significant losses as we fund our investments in early stage technologies. Historically, Arrowhead has relied upon issuances of capital stock to raise capital to fund operations, and we expect to continue to seek such investment going forward. Calando is currently conducting a Phase I clinical trial for its lead drug candidate, CALAA-01, an siRNA therapeutic based on RONDEL, Calando's proprietary siRNA delivery system technology. We expect continued development in RONDEL and CALAA-01, as well as investing in future drug candidates. Arrowhead does not intend to independently fund clinical trials through submission of a New Drug Application for FDA approval, and is working to employ its partnering strategies intended to decrease costs and maximize the Company's ability to bring products to market. Arrowhead has been focused on entering strategic partnering agreements for continued development of Calando and Unidym.

Critical Accounting Policies and Estimates

Management makes certain judgments and uses certain estimates and assumptions when applying accounting principles generally accepted in the United States in the preparation of our Consolidated Financial Statements. We evaluate our estimates and judgments on an ongoing basis and base our estimates on historical experience and on assumptions that we believe to be reasonable under the circumstances. Our experience and assumptions form the basis for our judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may vary from what we anticipate and different assumptions or estimates about the future could change our reported results. We believe the following accounting policies are the most critical to us, in that they are important to the portrayal of our consolidated financial statements and require our most difficult, subjective or complex judgments in the preparation of our consolidated financial statements. For further information, see *Note 1*, *Organization and Significant Accounting Policies*, to our Consolidated Financial Statements which outlines our application of significant accounting policies and new accounting standards.

Revenue Recognition

Revenue from product sales are recorded when persuasive evidence of an arrangement exists, title has passed and delivery has occurred, a price is fixed and determinable, and collection is reasonably assured.

We may generate revenue from product sales, technology licenses, collaborative research and development arrangements, and research grants. Revenue under technology licenses and collaborative agreements typically consists of nonrefundable and/or guaranteed technology license fees, collaborative research funding, and various milestone and future product royalty or profit-sharing payments.

Revenue associated with up-front license fees and research and development funding payments, under collaborative agreements, is recognized ratably over the relevant periods specified in the agreement, generally the research and development period. Revenue from substantive milestones and future product royalties is recognized as earned based on the completion of the milestones and product sales, as defined in the respective agreements. Payments received in advance of recognition as revenue are recorded as deferred revenue.

Impairment of Long-lived Assets

We review long-lived assets for impairment whenever events or changes in business circumstances indicate that the carrying amount of assets may not be fully recoverable or that our assumptions about the useful lives of these assets are no longer appropriate. If impairment is indicated, recoverability is measured by a comparison of the carrying amount of an asset to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated future cash flows, an impairment charge is recognized in the amount by which the carrying amount of the asset exceeds the fair value of the asset.

Stock-Based Compensation

We recognize stock-based compensation expense based on the grant date fair value using the Black-Scholes options pricing model, which requires us to make assumptions regarding certain variables including the risk-free interest rate, expected stock price volatility, and the expected life of the award. The assumptions used in calculating stock-based compensation expense represent management's best estimates, but these estimates involve inherent uncertainties, and if factors change or the Company used different assumptions, its stock-based compensation expense could be materially different in the future.

Derivative Liabilities

We account for warrants and other derivative financial instruments as either equity or liabilities based upon the characteristics and provisions of each instrument. Warrants classified as equity are recorded as additional paid-in capital on our consolidated

balance sheet and no further adjustments to their valuation are made. Some of our warrants were determined to be ineligible for equity classification because of provisions that may result in an adjustment to their exercise price. Warrants classified as derivative liabilities and other derivative financial instruments that require separate accounting as liabilities are recorded on our consolidated balance sheet at their fair value on the date of issuance and are revalued on each subsequent balance sheet date until such instruments are exercised or expire, with any changes in the fair value between reporting periods recorded as other income or expense. We estimate the fair value of these liabilities using option pricing models that are based on the individual characteristics of the warrants or instruments on the valuation date, as well as assumptions for expected volatility, expected life and risk-free interest rate. Changes in the assumptions used could have a material impact on the resulting fair value. The primary input affecting the value of our derivatives liabilities is the Company's stock price. For example, a 50% change in the value of the Company's stock price would affect the value of the derivative liability by approximately \$1.4 million to \$1.5 million, depending on other inputs.

Intellectual Property

Intellectual property consists of patents and patent applications internally developed, licensed from universities or other third parties or obtained through acquisition. Patents and patent applications are reviewed for impairment whenever events or circumstances indicate that the carrying amount may not be recoverable, and any impairment found is written off. Licensed or internally developed patents are amortized over the life of the patent. Purchased patents are amortized over three years.

Results of Operations

The Company had a net loss of \$7.0 million for the year ended September 30, 2010, compared to a net loss of \$19.3 million for the year ended September 30, 2009, a decrease of \$12.3 million.

The decrease in the fiscal 2010 net loss versus the fiscal 2009 net loss was the result of a number of factors. During the second half of fiscal 2009 several cost reduction initiatives were undertaken to streamline operations and reduce costs. The number of employees at Arrowhead and its Subsidiaries decreased from an average of 43 employees during fiscal 2009 to an average of 19 employees during fiscal 2010. Altogether, research and development costs decreased \$7.8 million, general and administrative costs decreased \$1.4 million, consulting costs decreased \$0.9 million, salary and salary-related costs decreased \$2.6 million, and stock-based compensation decreased \$1.1 million. Additionally, there was a non-cash gain of \$1.8 million related to a derivative liability recorded in association with the June 2010 equity issuance (see Note 11 to the accompanying consolidated financial statements). These decreased expenses were partially offset by a decrease in revenue of \$3.1 million.

Unidym began a cost reduction program during fiscal 2009 and reduced its operating expenses to a level which continued into fiscal 2010. Prior to 2009, Unidym was pursuing a business plan based on building a vertically integrated company that would manufacture both carbon nanotubes and carbon nanotube films. Due to the changes in the economic environment in late 2008, Unidym changed its manufacturing strategy to focus on the use of outside manufacturing availability rather than expand its internal capabilities. In line with this strategy, Unidym closed its Texas operations in January 2009, and reduced its Texas workforce. Unidym consolidated its Northern California operations into one facility in 2009 and also decreased the number of management and technical staff. This resulted in a reduction in personnel and other costs later in the year, and such cost reductions were maintained into 2010. Development costs at Unidym have been substantially reduced and the pace of development will depend on the cash resources and partnership opportunities available to Unidym.

Calando also reduced expenses in fiscal 2009 due to a change in business strategy. Rather than incur the significant expense of running multiple clinical trials, Calando decided to seek partners for further development of its technology. Beginning in fiscal 2008 and continuing into fiscal 2009, Calando reduced its management and technical staff culminating with the closure of its lab facility in Pasadena, California in June 2009 after a partnership for one of its drug delivery technologies and its associated clinical candidate was signed, significantly reducing its costs. In fiscal 2008, the Phase I trial for CALAA-01 was initiated, and in fiscal 2009, significant expense was incurred for manufacture of the components for CALAA-02, preparation for an IND for CALAA-02 and the continuation of Calando's clinical trials. Expenses in fiscal 2010 were primarily related to the Phase I clinical trials related to CALAA-01, but were somewhat limited as the accrual of patients was suspended for several months in 2010 as Calando developed a new stability assay. The enrollment of patients in the CALAA-01 clinical trial resumed in May 2010 and was in progress at the end of fiscal 2010. Continued clinical and preclinical development of Calando's drug candidates will depend on the cash resources available to Calando.

Revenues

The Company generated revenue of \$620,000 and \$3,758,000 for the years ended September 30, 2010 and 2009, respectively. The revenue for the year ended September 30, 2010 was primarily related to Unidym's sale of carbon nanotubes, CNT inks and CNT films, which accounted for approximately \$415,000 in revenue. Revenue from license fees and royalties, primarily from Unidym, were \$155,000, and other revenue was \$50,000. These revenue compare to fiscal 2009 revenue which consisted of a license fee of \$1,750,000 related to the license of IT-101 from Calando to Cerulean, the sale of approximately \$678,000 in IT-101 inventory to Cerulean, \$203,000 from grants to fund research for the development of carbon nanotube applications, \$503,000 from license fees

applicable to Unidym technology, \$602,000 from the sale and delivery of carbon nanotubes to third parties and \$37,000 of collaboration services revenue. The primary reason for the reduction in revenue in fiscal 2010 is that the Company did not enter into any significant partnership agreements in 2010.

Operating Expenses

The analysis below details the operating expenses and discusses the expenditures of the Company within the major expense categories. For purposes of comparison, the amounts for the years ended September 30, 2010 and 2009 are shown in the table below.

Salary & Wage Expenses - Fiscal 2010 compared to Fiscal 2009

Arrowhead employs management, administrative and technical staff at the Arrowhead corporate offices and the Subsidiaries. Salary and wage expense consists of salary, benefits, and non-cash charges related to equity-based compensation from the issuance of stock options. Salary and benefits are allocated to two major categories: general and administrative compensation expense and research and development compensation expense depending on the primary activities of each employee. The following table provides details of salary and related expenses for fiscal 2010 and fiscal 2009.

(in thousands)

			% of			% of		
	Yea	ar Ended	Expense	Ye	ar Ended	Expense	Increase (De	crease)
	Septen	ber 30, 2010	Category	Septer	nber 30, 2009	Category	\$	%
G&A—compensation-related	\$	1,451	34%	\$	2,852	36%	\$ (1,401)	-49%
Stock-based compensation		1,582	37%		2,676	33%	(1,094)	-41%
R&D—compensation-related		1,265	29%		2,482	31%	(1,217)	-49%
Total	\$	4,298	100%	\$	8,010	100%	\$ (3,712)	-46%

The Company reduced the number of employees across all its entities during fiscal 2009. Arrowhead and its subsidiaries employed 19 people at September 30, 2009, a reduction of 48 employees during fiscal 2009. During fiscal 2010, the headcount remained relatively flat, but cost reductions were realized for a full year in 2010, compared to a partial year in fiscal 2009. The employee reductions resulted from the change in business strategy at both Unidym and Calando as described above.

Research and development (R&D) compensation-related expense decreased in fiscal 2010 compared to fiscal 2009 due primarily to Unidym's reduction in research scientists and process engineers and the closure of Unidym's Texas facility. Calando has also reduced laboratory personnel in connection with its decision in 2009 to license its small molecule platform and associated drug candidate and close its laboratory facility. Two Calando employees have been retained to manage the CALAA-01 clinical study and to facilitate the partnership arrangements for Calando's technology.

Stock-based compensation is a non-cash charge related to grant-date fair value of stock options, which is recognized over the vesting period. During fiscal year 2009, the number of options outstanding decreased as a result of options being cancelled following employee terminations. Also, in July 2009, 4,005,000 options issued to officers, directors and certain employees were cancelled to facilitate a financing by the Company in the fourth quarter of fiscal 2009. In total, 5.6 million stock options were cancelled in fiscal 2009. These options had a weighted average exercise price of \$3.88, and reduced expense considerably. During fiscal 2010, 5.3 million options were granted at a weighted average exercise price of \$0.68, and a correspondingly lower fair value resulted in lower compensation expense in fiscal 2010.

General & Administrative Expenses – Fiscal 2010 compared to Fiscal 2009

The following table provides details of our general and administrative expenses for the fiscal years 2010 and 2009.

(in thousands)

			% of			% of			
	Year Ended		.		ear Ended			Increase (Decrease)	
	Septembe	r 30, 2010	Category	Septe	mber 30, 2009	Category	\$	<u>%</u>	
Professional/outside services	\$	1,445	45%	\$	2,217	49%	\$ (772)	-35%	
Recruiting/relocation		18	1%		32	1%	(14)	-44%	
Patent expense		401	13%		652	14%	(251)	-38%	
Facilities and related		278	9%		281	6%	(3)	-1%	
Travel		240	8%		387	8%	(147)	-38%	
Business insurance		267	8%		414	9%	(147)	-36%	
Depreciation		85	3%		132	3%	(47)	-36%	
Communication and technology		138	4%		197	4%	(59)	-30%	
Office expenses		107	3%		168	4%	(61)	-36%	
Other		204	6%		87	2%	117	134%	
Total	\$	3,183	100%	\$	4,567	100%	\$ (1,384)	-30%	

Professional/outside services include legal, accounting and other outside services retained by Arrowhead and its subsidiaries. All periods include normally occurring legal and accounting expenses related to SEC compliance and other corporate matters. Professional/outside services expense was \$1,445,000 during the year ended September 30, 2010, compared to \$2,217,000 in the comparable prior period. The decrease in professional fees primarily relates to a reduction in expenses at Arrowhead due to lower legal and printing fees, and lower fees at Calando, primarily due to the non-recurrence of expenses associated with a financing in the prior period. Additionally, the prior year included certain legal fees related to the licensing of IT-101 at Calando, which were not repeated. These reductions were somewhat offset by higher costs related to NASDAQ fees associated with increased shares outstanding.

Recruiting/relocation fees were \$18,000 during the year ended September 30, 2010, compared to \$32,000 in the comparable prior period. Recruiting/relocation fees during in fiscal 2010 were related to relocation fees at Arrowhead, while costs in the prior year primarily related to relocation costs at Unidym. Recruiting and relocation expense in both periods was relatively insignificant as the company has not been actively recruiting new employees. These costs will vary depending on hiring needs of the Company.

Patent expense was \$401,000 during the year ended September 30, 2010, compared to \$652,000 in the comparable prior period. During the year ended September 30, 2010, patent expense decreased at all entities with majority of the reduction relating to Calando and Unidym, which decreased \$74,000 and \$88,000 respectively. Patent expense during the year ended September 30, 2009 was primarily related to patent costs at Calando of \$320,000 prior to the license agreements to Cerulean, and \$237,000 at Unidym for patent costs related to Nanoconduction, which were not repeated. The Company expects to continue to invest in patent protection as the Company extends and maintains protection for its current portfolios and files new patent applications as its product applications are improved. The cost will vary depending on the needs of the Company.

Facilities and related expense within general and administrative expenses primarily relate to rental costs associated with the Company's headquarters in Pasadena, California. As there were no significant changes to the lease during fiscal 2010, expenses did not change significantly.

Travel expense was \$240,000 during the year ended September 30, 2010, compared to \$387,000 in the comparable prior period. Travel expense includes recurring expenses related to travel by Company personnel to and from Company locations in Pasadena and Northern California. Travel expense is also incurred as the Company pursues business initiatives and collaborations throughout the world with other companies and for marketing, investor relations, fund raising and public relations purposes. During the year ended September 30, 2010, travel expense decreased \$147,000, compared to the year ended September 30, 2009, primarily due to a reduction of travel costs at Unidym of \$142,000 due to the reduction in the number of employees, mainly as a result of the closure of its Texas facility. Travel expenses can fluctuate from quarter to quarter and from year to year depending on current projects and activities.

Business insurance expense was \$267,000 during the year ended September 30, 2010, compared to \$414,000 in the comparable prior period. The decrease in the cost of business insurance is primarily related to a refund received in June 2010 of \$55,000 at Calando related to an adjustment in clinical insurance costs from a previous year based on the number of enrolled patients. Also, business insurance is lower due to generally lower rates in insurance markets and a reduction in coverage for clinical trials with the termination of the Phase II clinical study for IT-101, and the reduction in the number of facilities at Unidym requiring insurance. This expense can fluctuate as a result of changes in the market and the status of clinical trials and other business operations.

Depreciation expense was \$85,000 during the year ended September 30, 2010, compared to \$132,000 in the comparable prior period. The decrease in depreciation expense is primarily related to the closure of the Calando facility in 2009 and the disposal of the related fixtures, furniture and equipment.

Communication and technology expense was \$138,000 during the year ended September 30, 2010, compared to \$197,000 in the comparable prior period. The decrease in communication and technology cost is due to lower technology consulting expense at Unidym due to the closure of its Texas facility, and generally lower telephone and software maintenance cost at Arrowhead and Calando.

Office expense was \$107,000 during the year ended September 30, 2010, compared to \$168,000 in the comparable prior period. The reduction in office expense is primarily related to the closing of the facilities and the reduction in employees.

Research and Development Expenses – Fiscal 2010 compared to Fiscal 2009

Most of Arrowhead's R&D expenses for fiscal 2010 and fiscal 2009 were related to research and development activities by Arrowhead's Subsidiaries. The following table provides details of R&D expenses for fiscal 2010 and 2009:

(in thousands)

crease)
%
-95%
-42%
-100%
-97%
-68%
-83%
-47%
-65%
-88%

Outside lab and services expense was \$215,000 during the year ended September 30, 2010, compared to \$3,950,000 in the comparable prior period. The decrease of \$3,735,000 during the year is primarily related to the curtailment of certain outside lab services at Calando and, to a lesser extent, reduction of costs at Unidym. The reduction at Calando was a result of the advanced state of the IT-101 Phase I clinical trial, the decision to close the IT-101 Phase II clinical trials in connection with the agreement with Cerulean, completion of preparatory work for the CALAA-01 Phase I clinical trial and the suspension of development efforts for CALAA-02. During fiscal 2009, process development and preclinical expenses for Calando's drug candidate CALAA-02, together with the clinical trial expenses for CALAA-01 (Phase I) and IT-101 (Phase I and II) totaled approximately \$2.9 million. However, the expenses were significantly reduced by June 30, 2009 when the Calando facility was closed. Unidym's R&D expenses are also declining as a result of streamlining its R&D effort and the closure of its production facility in Texas. Unidym continues to focus on the production and sale of CNT-based inks and is seeking to establish partnerships for both CNT production and coating of film. Outside laboratory & contract services expenses will continue to fluctuate depending upon where a particular project is in its development, approval or trial process.

Licensing fees, milestones and royalties consist primarily of amounts paid by Unidym under the terms of its license agreement with Rice University and Calando for the license for siRNA targets from Alnylam, and licensing arrangements with Caltech. This expense decreased primarily due to reduced fees owed to Caltech, and also due to the nonrepeat of other one-time fees from fiscal 2009.

In fiscal 2009, purchased In-Process R&D expense resulted from the exchange of Arrowhead stock for Unidym stock. As a result of these exchanges, Arrowhead increased its ownership position in Unidym. The purchased in-process research and development expense equals the estimated fair value of the Arrowhead stock issued to purchase Unidym shares from Unidym's minority shareholders. Arrowhead's purchase of the Unidym shares is accounted for as an additional Investment in Subsidiaries by Arrowhead. However, the additional investment by Arrowhead does not result in a corresponding increase in Unidym's asset or capital accounts. The additional investment was expensed in consolidation as purchased in-process research and development in accordance with guidance by the FASB. This determination was made in light of the risks inherent in the technical development and the uncertainty of acceptance of Unidym's products. Effective October 1, 2009, with the Company's adoption of new guidance issued by the FASB, such transactions are no longer expensed, but are recorded as a part of equity.

Laboratory supplies and services expense was \$9,000 during the year ended September 30, 2010, compared to \$295,000 in the comparable prior period. Laboratory supplies and services consist primarily of materials, supplies and services consumed in the laboratory. The decrease in laboratory supplies and services expense was due to a reduction of \$223,000 at Unidym due to the closure of the Texas facility, and a reduction of \$60,000 at Calando due to the closure of its laboratory.

Facilities expense was \$391,000 during the year ended September 30, 2010, compared to \$1,225,000 in the comparable prior period. The decrease in facilities related expenses primarily related to the closure of Unidym's Texas facilities and Menlo Park, California facility, as well as Calando's lab facility.

Sponsored research expense was \$33,000 during the year ended September 30, 2010, compared to \$195,000 in the comparable prior period. Sponsored research expense decreased the year ended September 30, 2010, as compared to the prior year, due to lower funding to the research project at Duke University, the only sponsored research agreement currently in place.

Depreciation expense was \$254,000 during the year ended September 30, 2010, compared to \$476,000 in the comparable prior period. The decrease in depreciation expense is primarily due to the disposal of laboratory equipment and leasehold improvements related to closure of Unidym's and Calando's laboratory facilities in fiscal 2009.

The table below sets forth the approximate amount of Arrowhead's cash expenses for research and development projects at each Subsidiary for the periods described below.

			Project
	Project	Project	expenses from
	expenses for	expenses for	inception of
	year ended	year ended	Project through
	September 30,	September 30,	September 30,
Name of Subsidiary / Project	2010	2009	2010
Calando Pharmaceuticals, Inc. / CALAA-01 & IT 101	\$1.2 Million	\$ 6.5 Million	\$41.3 Million
Unidym, Inc. / Thin Film Carbon Nanotubes	\$3.8 Million	\$ 7.0 Million	\$29.9 Million
Total of all listed Subsidiaries	\$5.0 Million	\$13.5 Million	\$71.2 Million

Consulting Expenses

For fiscal 2010, consulting fees and related travel totaled approximately \$514,000. Fiscal 2009 consulting fees were \$1,461,000, \$945,000 of which related to Calando and was primarily related to consulting for clinical trials which was significantly reduced in fiscal 2010. With the completion of the Phase II trial for IT-101 and its ultimate licensing to a third party for development, consulting for clinical studies has decreased significantly. Consulting expense at Unidym decreased by \$154,000 primarily due to elimination of consultants associated with the closure of the Texas facility.

Other Income / Expense

Other income increased from \$416,000 in fiscal 2009 to \$1,418,000 in fiscal 2010. The main reason for the increase was due to a gain recorded on the change in the value of derivative liabilities. This was driven by a decrease in the value of derivative liabilities related to warrants issued in June 2010, that contain antidilution protection (see Note 11 – Fair Value Measurements & Derivative Instruments). These warrants decreased in value between the date of their issuance and September 30, 2010 primarily due to the decrease in Arrowhead stock price which resulted in a lower fair value of the derivative liability and a gain of \$1.7 million during the year ended September 30, 2010. This gain was partially offset by the non-recurrence of a one-time gain from the sale of our equity interests in Ensysce BioSciences, Inc., which occurred in fiscal 2009.

Liquidity and Cash Resources

As a development stage company, Arrowhead has historically financed its operations through the sale of securities of Arrowhead and its Subsidiaries. Development activities at our Subsidiaries, in particular Calando and Unidym, has required significant capital investment since the Company's inception in 2003 and is expected to continue to require significant cash investment in fiscal 2011 to continue development.

At September 30, 2010, Arrowhead had cash on hand of approximately \$6.8 million on a consolidated basis. Cash and cash equivalents increased during the 2010 fiscal year by \$4.8 million to \$6.8 million at September 30, 2010 from \$2.0 million at September 30, 2009.

Cash used in operating activities was \$7.6 million, which represents the on-going expenses of Arrowhead and its Subsidiaries. Cash outlays were primarily composed of the following: salary costs were \$2.7 million, general and administrative costs were \$3.0 million, research and development costs were \$0.9 million and consulting costs were \$0.6 million. Approximately \$0.4 million was used in the funding of working capital, primarily due to the reduction of accounts payable balances. Finally, \$0.7 million was used to fund operating expenses at Arrowhead's two minority interest companies, Nanotope and Leonardo. It is expected that these funds will be repaid, or converted to equity in the future. Cash expenses were partially offset by cash received from revenues of \$0.7 million.

Cash provided from financing activities was \$12.0 million. As further described below, there were two significant equity financings during fiscal 2010 with total net proceeds of \$11.1 million. In addition, warrants were exercised during the year which yielded proceeds of \$1.1 million. Proceeds from financing activities also include \$0.6 million related to cash investments in Unidym. Finally, payments on capital lease obligations were \$0.7 million.

Cash flow from discontinued operations was \$0.4 million, related to the sale of the Company's intellectual property assets of Tego Biosciences to Luna Innovations Inc. The Company's operation of Tego has ceased, however the asset purchase agreement with Luna Innovations, Inc. allows for certain royalties and milestone payments.

The Company's strategic plan includes focusing on near term revenue opportunities, conserving cash and seeking sources of new capital. To execute this plan, the Company will seek to accomplish one or more of the following on favorable terms: the out-license of technology, sale of a subsidiary, sale of non-core assets, funded joint development or partnership arrangements and sale of securities. The Company is actively involved in discussions with third parties regarding several of these alternatives. However, until such time as one or more of these efforts can be accomplished, the Company will continue to conserve cash while investing in its core operations.

The Company's management anticipates that the Company will be able to satisfy the cash requirements of its operations through at least the next twelve months with current cash resources. The Company anticipates that further equity financings, and/or asset sales and license agreements will be necessary to continue to fund operations in the future.

Recent Financing Activity:

On December 11, 2009, the Company sold an aggregate of 5,083,430 units in a private placement transaction with accredited investors. Each unit consisted of one share of Arrowhead Common Stock and a warrant to purchase an additional share of Common Stock exercisable at \$0.509 per share. The unit price was \$0.634, based upon the closing bid price on the Company's Common Stock on December 11, 2009, which was \$0.509, plus \$0.125 for the purchase of the warrant. The warrants became exercisable on June 12, 2010 and remain exercisable until December 11, 2014. The redemption feature provided for in the warrants has been met and may be called for redemption by the Company beginning on December 12, 2010. Gross proceeds of the offering were approximately \$3.2 million.

On June 17, 2010, the Company executed definitive agreements for a private placement offering with certain institutional and accredited investors, by which the Company sold 6,592,989 units consisting of one share of the Company's common stock and a warrant to purchase 0.5 shares of Common Stock, exercisable at \$1.65 per share. The unit price was \$1.312 per unit. The warrants become exercisable on December 22, 2010 and remain exercisable until December 22, 2015. The Company received gross proceeds of approximately \$8.7 million, and net proceeds of approximately \$7.9 million, after deduction of placement agent commissions and offering fees and expenses.

Off-Balance Sheet Arrangements

As of September 30, 2010, we did not have any off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of SEC Regulation S-K.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

As a "Smaller Reporting Company," we are not required to provide this information.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The information required by this item is included in Item 15 of this Annual Report Form 10-K.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE.

None.

ITEM 9A. CONTROLS AND PROCEDURES.

Our Chief Executive Officer and our Chief Financial Officer, after evaluating our "disclosure controls and procedures" (as defined in Securities Exchange Act of 1934 (the "Exchange Act") Rules 13a-15(e) and 15d-15(e)) as of the end of the period covered by this Annual Report on Form 10-K (the "Evaluation Date") have concluded that as of the Evaluation Date, our disclosure controls and procedures are effective to ensure that information we are required to disclose in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms, and to ensure that information required to be disclosed by us in such reports is accumulated and communicated to our management, including our chief executive officer and chief financial officer where appropriate, to allow timely decisions regarding required disclosure.

Management's Annual Report on Internal Control over Financial Reporting

Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. Our internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in

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

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

Management's Assessment of the Effectiveness of our Internal Control over Financial Reporting

Management has evaluated the effectiveness of our internal control over financial reporting as of September 30, 2010. In conducting its evaluation, management used the framework set forth in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on our evaluation under such framework, management has concluded that our internal control over financial reporting was effective as of September 30, 2010.

Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting that occurred during the fourth quarter of the year ended September 30, 2010, that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None

PART III

ITEM 10. DIRECTORS AND EXECUTIVE OFFICERS OF THE REGISTRANT.

Board of Directors:

The names and ages of our directors serving as of September 30, 2010 are provided below. Directors are elected annually for a one year term. Biographical information regarding these officers is set forth under the following table.

Name Christopher Anzalone	<u>Age</u> 41	Position with Arrowhead Chief Executive Officer & President and Director
R. Bruce Stewart	72	Executive Chairman of the Board
Mauro Ferrari	51	Director
Edward W. Frykman	74	Director
Douglass Given (1)	58	Director
Charles P. McKenney	72	Director

⁽¹⁾ Douglass Given was appointed to the Board of Directors on November 23, 2010

Dr. Christopher Anzalone has been President, Chief Executive Officer and Director of the Company since December 1, 2007. In 2005, Dr. Anzalone formed and served as CEO of the Benet Group LLC, private equity firm focused on creating and building new nano-biotechnology companies from university-generated science. While at The Benet Group, Dr. Anzalone was founding CEO in two portfolio companies, Nanotope Inc., a tissue regeneration company, and Leonardo Biosystems Inc., a cancer drug delivery company. Dr. Anzalone remains CEO of Nanotope. Prior to his tenure at Benet Group, from 1999 until 2003, he was a partner at the Washington, DC-based private equity firm Galway Partners, LLC, where he was in charge of sourcing, structuring, and building new business ventures and was founding CEO of NanoInk, Inc., a leading nanolithography company. Dr. Anzalone holds a Ph.D. in Biology from UCLA and a B.A. in Government from Lawrence University. We believe Dr. Anzalone's qualifications to serve on the Board include his deep understanding of the business through his role as Chief Executive Officer; in addition Dr. Anzalone has extensive experience in nanotechnology, biotechnology, company-building and venture capital.

R. Bruce Stewart has been Executive Chairman of the Board of the Company since December 1, 2007. Mr. Stewart was Arrowhead's Chief Executive Officer and Chairman of the Board of the Company from January 2004 to November 30, 2007. Mr. Stewart was the Chairman of the Board of Arrowhead's predecessor company since its inception in May 2003 and devoted much of his time from early in 2003 to development of its plan of operations. Mr. Stewart founded Acacia Research Corporation in March 1991, and was employed by Acacia Research Corporation in various capacities until January 2003, serving as its President from inception through January 1997, Chairman until April 2000, and as a senior advisor until January 2003. We believe Mr. Stewart's qualifications to serve on the Board includes his long tenure as Chief Executive Officer and as a member of the Board during which time he gained an extensive understanding of the Company's operations, strategy and finances, as well as his extensive experience in the field of finance.

Dr. Mauro Ferrari was appointed to the Arrowhead Board of Directors in 2010. Dr. Ferrari is the President and CEO of The Methodist Hospital Research Institute (TMHRI). He is also the President of The Alliance for NanoHealth. Dr. Ferrari is an internationally recognized expert in nanomedicine and biomedical nanotechnology. Prior to assuming leadership of TMHRI, Dr. Ferrari was Professor and Chairman of The Department of NanoMedicine and Biomedical Engineering at The University of Texas Health Science Center at Houston, Professor of Experimental Therapeutics at the MD Anderson Cancer Center, Adjunct Professor of Bioengineering at Rice University, and Adjoint Professor of Biomedical Engineering at the University of Texas in Austin. His previous academic appointments include professorships at UC Berkeley and Ohio State University.

From 2003 to 2005, he served as Special Expert on Nanotechnology and Eminent Scholar at The National Cancer Institute, where he led in the development of the NCI's program in Nanotechnology, which remains the largest program in NanoMedicine in the world. Dr. Ferrari has been serving as the Editor-in-Chief for "Biomedical Microdevices: BioMEMS and Biomedical Nanotechnology" since 1997. We believe Dr. Ferrari's qualifications to serve on the Board include his extensive training and experience in the fields of nanotechnology, biotechnology and biomedical applications. Dr. Ferrari has significant technical training, several academic appointments and numerous published articles and patents. Additionally, Dr. Ferrari has extensive experience in developmental stage organizations having founded several startup companies.

Edward W. Frykman has been a director of the Company since January 2004. Mr. Frykman was an Account Executive with Crowell, Weedon & Co., a position he held from 1992 until 2008 when he retired. Before his service at Crowell, Weedon & Co., Mr. Frykman served as Senior Vice President of L.H. Friend & Co. Both Crowell Weedon & Co. and L.H. Friend & Co. are investment brokerage firms located in Southern California. In addition, Mr. Frykman was a Senior Account Executive with Shearson Lehman Hutton, where he served as the Manager of the Los Angeles Regional Retail Office of E. F. Hutton & Co. Mr. Frykman was a director in Arrowhead's predecessor company since its inception in May 2003 until January 2004, when he became a director of the Company. Mr. Frykman is also a director of Acacia Research Corporation, a publicly-held corporation based in Newport Beach, California. We believe Mr. Frykman's qualifications to serve on the Board include his long tenure as a member of the Board which enabled Mr. Frykman to gain a deep understanding of the company's operations, strategy and finances. Mr. Frykman also has extensive experience in the fields of finance and public company oversight.

Douglass Given, MD, PhD, MBA, is an Investment Partner at Bay City Capital and has been with the firm since October 2000. He was formerly Chief Executive Officer and a director of NeoRx, Corporate Sr. Vice President and Chief Technical Officer of Mallinckrodt, and Chief Executive Officer and a director of Progenitor and Mercator Genetics. He held positions as Vice President at Schering Plough Research Institute, Vice President at Monsanto/G.D. Searle Research Laboratories, and Medical Advisor at Lilly Research Laboratories. Dr. Given is the Chairman of VIA Pharmaceuticals, and Chairman of Vivaldi Biosciences. He is Chairman of the Visiting Committee to the Division of Biological Sciences and the Pritzker School of Medicine at the University of Chicago, a member of the Johns Hopkins Bloomberg School of Public Health Advisory Board, and a member of the Harvard School of Public Health AIDS Initiative International Advisory Council

Dr. Given holds an MD with honors and a PhD from the University of Chicago, and an MBA from the Wharton School, University of Pennsylvania. He was a fellow in Internal Medicine and Infectious Diseases at Harvard Medical School and Massachusetts General Hospital. We believe Dr. Given's qualifications to serve on the Board include his extensive experience in finance and business transactions, particularly investments in the life sciences industry as well as directorship roles in start-up biotechnology companies. Dr. Given also has significant leadership roles, including CEO and Senior Vice President, at several large pharmaceutical companies.

Charles P. McKenney has been a director of the Company since April 2004. Mr. McKenney has maintained a government affairs law practice in Pasadena, California since 1989, representing businesses and organizations in their relations with state and local government regarding their obligations under state and local land use and trade practices laws. From 1973 through 1989, he served as Attorney for Corporate Government Affairs for Sears, Roebuck and Co., helping organize and carry out Sears's western state and local government relations programs. Mr. McKenney has served two terms on the Pasadena, California, City Council as well as on several city boards and committees, including three city Charter Reform Task Forces. We believe Mr. McKenney's qualifications to serve on the Board include his long tenure as a member of the Board resulting in a deep understanding in the Company's operations, strategy and finances. Mr. McKenney also has extensive experience providing strategic legal and advisory services to developmental stage organizations.

Executive Officers:

The names and ages of our executive officers and the positions held by each are as follows:

Name Christopher Anzalone	<u>Age</u> 41	Position with Arrowhead Chief Executive Officer & President and Director
R. Bruce Stewart	72	Executive Chairman of the Board
Kenneth A. Myszkowski	44	Chief Financial Officer
Mark Tilley	50	President & CEO, Unidym, Inc.
John Miller	32	Vice President, Business Development

Dr. Christopher Anzalone (see Board of Directors)

R. Bruce Stewart (see Board of Directors)

Kenneth A. Myszkowski, Chief Financial Officer, joined Arrowhead in 2009. Prior to joining Arrowhead, Mr. Myszkowski served as the corporate controller for Broadwind Energy, a public energy company which provides products and services to the wind energy industry. Previous to his position at Broadwind, Mr. Myszkowski was controller for Epcor USA, the U.S. headquarters for Epcor Utilities, Inc., a public energy company. Prior to Epcor, Mr. Myszkowski was controller for two start-up ventures: NanoInk, specializing in Dip Pen Nanolithography, a nanofabrication technology, and Delphion, which provided on-line tools for intellectual property research. Mr. Myszkowski also held several corporate roles at FMC Corporation, and Premark International, both Fortune 500 conglomerates. He began his career in the audit practice of Arthur Andersen & Co. in Chicago, Illinois. Mr. Myszkowski received his undergraduate degree from the University of Illinois, and his MBA from the University of Chicago Booth School of Business. He is a certified public accountant.

Mark Tilley, President and Chief Executive Officer, Unidym, a majority-owned subsidiary of the Company. Prior to joining Arrowhead, he spent 9 years at DSM N.V.; a Netherlands-based specialty performance materials and life sciences company. Most recently, he served as Senior Investment Manager with DSM's Corporate Venturing Arm and served on the boards of CreAgri, Novomer, Van Technologies, Harland Medical Systems and InMat. Prior to his work with DSM Ventures, Dr. Tilley was Vice President of Research and Business Development for DSM Desotech, an operating division of DSM that is the global market leader in fiber optic coatings and stereo lithographic resins. During his tenure, he led marketing and technical teams, and built a nano-enabled flat panel displays materials business that was acquired by JSR in 2005. Dr. Tilley also co-founded Kriya Materials B.V., a venture capital backed nano-materials and coatings company based in the Netherlands.

John Miller, Vice President, Business Development joined Arrowhead in May 2004 and has been instrumental in monitoring the intellectual property landscape and licensing patents held by Arrowhead and its subsidiaries, as well as identifying and developing new business ideas for Arrowhead. Mr. Miller founded NanoPolaris (now Unidym) and guided its development through the acquisition of three nanotechnology companies. Prior to joining the Company, from 2002 until 2004, Mr. Miller was a founder and Managing Editor of Nanotechnology Law & Business, a peer-reviewed, quarterly journal. He has published various articles on legal and policy issues in nanotechnology and co-authored The Handbook of Nanotechnology Business, Policy, and Intellectual Property Law (John Wiley, 2004). John is a member of the California bar and federal courts in the Northern District of California. He graduated Order of the Coif from Stanford Law School.

Section 16(a) Beneficial Ownership Reporting Compliance

Under Section 16(a) of the Securities Exchange Act of 1934, the Company's directors and officers and its significant stockholders (defined by statute as stockholders beneficially owning more than ten percent (10%) of the Common Stock) are required to file with the SEC and the Company reports of ownership, and changes in ownership, of common stock. Based solely on a review of the reports received by it, the Company believes that, during the fiscal year ended September 30, 2010, all of its officers, directors and significant stockholders complied with all applicable filing requirements under Section 16(a) except as follows: Form 3 for Ken Myszkowski was not filed timely to report his initial ownership position when he was appointed Chief Financial Officer of the Company, and Form 4s for Edward W. Frykman, Leroy T. Rahn and Charles P. McKenney were not filed timely for automatic director grants on June 16, 2010.

Code of Ethics

We have adopted a code of conduct that applies to our Chief Executive Officer, Chief Financial Officer, and to all of our other officers, directors and employees. The code of conduct is available at the Corporate Governance section of the Investor Relations page on our website at www.arrowheadresearch.com. Any waivers from or amendments to the code of conduct, if any, will be posted on our website.

Corporate Governance

The Audit Committee of the Board is currently comprised of three directors and operates under a written charter adopted by the Board. The members of the Audit Committee are Edward W. Frykman, Charles P. McKenney and Douglass Given. All members of the Audit Committee are "independent," as defined in Rule 10A-3 under the Exchange Act and Rule 4200(a)(14) of the NASDAQ Marketplace Rules, and financially literate. The Board has determined that Mr. Frykman is an "audit committee financial expert" in accordance with the applicable regulations.

ITEM 11. EXECUTIVE COMPENSATION.

Executive Officers

Summary Compensation Table

The following table summarizes compensation paid, awarded or earned for services rendered during fiscal 2010 and fiscal 2009 by our Chief Executive Officer, and our two most highly paid executive officers serving the Company as of September 30, 2010. We refer to those persons collectively as our "Named Executive Officers".

Name and Principal Position	Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)	Option Awards (\$)(1)	All Other Compensation (\$)(2)	Total (\$)
Christopher Anzalone	2010	400,000			307,133		707,133
President & Chief Executive Officer	2009	394,485	_	_	967,296	_	1,316,781
Ken Myszkowski	2010	185,096	27,419	_	36,520	1,731	250,766
Chief Financial Officer	2009	_	_	_	_	_	_
Mark Tilley	2010	192,000	_	_	43,522	1,538	237,060
President and CEO of Unidym, Inc.	2009	170,665	_	_	112,054	_	282,719

⁽¹⁾ Amounts shown do not reflect compensation actually received by the named executive officer. Instead, the amounts are shown are the compensation cost recognized by the Company, as determined pursuant to FASB guidance. The assumptions used to calculate the value of the stock underlying the option awards are set forth in Note 10 of the Notes to the Consolidated Financial Statements attached hereto.

Outstanding Equity Awards at Fiscal Year-End

The following table provides information, with respect to the Named Executive Officers, concerning the Outstanding Equity Awards of the Company's stock as of September 30, 2010.

		Option Awards (1)			
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Option Exercise Price (\$)	Option Expiration Date	
Christopher Anzalone	25,000	_	2.13	6/11/2018	
	499,884	626,616	0.51	10/8/2019	
	140,813	422,437	0.52	3/4/2020	
	10,417	489,583	0.99	8/16/2020	
Ken Myszkowski	44,268	205,732	0.70	11/16/19	
	20,000	60,000	0.52	3/4/2020	
	2,500	117,500	0.99	8/16/2020	
Mark Tilley	25,000	_	1.11	10/23/2018	
	62,569	78,431	0.51	10/8/2019	
	25,000	75,000	0.52	3/4/2020	
	2,500	117,500	0.99	8/16/2020	

⁽²⁾ Amounts consist of 401(k) matching contributions.

(1) All option awards were granted under the 2000 Stock Option Plan or the 2004 Equity Incentive Plan of the Company. Options are priced at the market closing price on the day of the award. Options have various vesting parameters, but generally vest within 48 months or less after the award is granted.

Director Compensation

Directors who are also employees of the Company receive no separate compensation from the Company for their service as members of the Board. Non-employee directors currently receive a cash retainer of \$20,000 per year. Additionally, non-employee directors who have served on the Board for at least six months receive an automatic grant of non-qualified stock options to purchase 40,000 shares of common stock upon re-election each year. Dr. Ferrari has waived his right to cash compensation and has waived his right to received stock option grants. The following table sets forth the total compensation paid to our non-employee directors in fiscal 2010.

	Fee Ea	rned	
	or	Option	
	Paid in	Cash Awards	
Name_	(\$) (1) (\$) (2) (3)	Total (\$)
Edward Frykman	\$ 20	,000 \$37,718	\$57,718
Leroy Rahn (4)	\$ 20	,000 \$37,718	\$57,718
Charles McKenney	\$ 20	,000 \$40,181	\$60,181
Mauro Ferrari	\$	— \$35,771	\$35,771
Douglass Given (5)	\$	— \$ —	\$ —
Douglass Given (5)	\$	_ \$ _	\$ —

- Each non-employee director received \$5,000 per quarter for his service as a director. There are no additional payments for being a member of a committee.
 Mr. Ferrari and Mr. Given have declined to receive cash compensation.
- (2) Amounts shown do not reflect compensation actually received by directors. Instead, the amounts shown are the fair value recognized by the Company in fiscal 2010 for option awards as determined pursuant to FASB guidance. The assumptions used to calculate the value of option awards are set forth under Note 10 to the Consolidated Financial Statements attached hereto.
- (3) Annual option grant to non-employee directors vest one year from date of grant. At September 30, 2010, Mr. Frykman had outstanding option grants to purchase 265,000 shares at prices ranging from \$0.49 to \$2.02; Mr. Rahn had outstanding option grants to purchase 265,000 shares at prices ranging from \$0.49 to \$2.02; Mr. McKenney has outstanding option grants to purchase 240,000 shares at prices ranging from \$0.49 to \$2.02; and Mr. Ferrari had outstanding option grants to purchase 248,438 shares at prices ranging from \$0.96 to \$2.87.
- (4) Mr. Rahn resigned as a director of the Company on August 17, 2010.
- (5) Mr. Given was appointed to the Board of Directors on November 23, 2010.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The following table sets forth the beneficial ownership of the Company's Common Stock as of November 30, 2010, by (i) each of the named executive officers named in the table under "Executive Compensation and Related Information," (ii) each director, (iii) all current directors and executive officers as a group, and (iv) the sole holder of greater than 5% of our total shares outstanding known to us. The persons and entities named in the table have sole voting and investment power with respect to all shares beneficially owned, subject to community property laws, where applicable and the address of each stockholder is c/o Arrowhead Research Corporation, 201 South Lake Avenue, Suite 703, Pasadena, California 91101.

	Number and Percentage of Shares Beneficially Owned (1)		
	Shares	Percentage	
5% Beneficial Owners			
M. Robert Ching (2)	7,108,863	9.9%	
Executive Officers and Directors			
R. Bruce Stewart (3)	1,107,794	1.5%	
Chris Anzalone (4)	1,647,376	2.3%	
Kenneth Myszkowski (5)	123,433	*	
Mark Tilley (6)	174,097	*	
Edward Frykman (7)	234,684	*	
Charles McKenney (8)	135,300	*	
Leroy Rahn (9)	164,684	*	
Mauro Ferrari (10)	267,948	*	
All executive officers and directors as a group (8 persons) (11)	3,855,316	5.4%	

- * Less than 1%
- (1) Based on 71,806,694 common shares issued and outstanding as of November 30, 2010. Shares not outstanding but deemed beneficially owned by virtue of the right of a person to acquire them as of November 30, 2010, or within sixty days of such date, are treated as outstanding only when determining the percentage owned by such individual and when determining the percentage owned by a group.
- (2) Includes 2,558,026 shares issuable upon the exercise of common stock purchase warrants that are exercisable within 60 days of November 30, 2010.
- (3) Includes 596,294 shares issuable upon the exercise of stock options that are exercisable within 60 days of November 30, 2010.
- (4) Includes 983,918 shares issuable upon the exercise of stock options, and 321,729 shares issuable upon the exercise of common stock purchase warrants that are exercisable within 60 days of November 30, 2010.
- (5) Includes 108,433 shares issuable upon the exercise of stock options that are exercisable within 60 days of November 30, 2010.
- (6) Includes 163,297 shares issuable upon the exercise of stock options, and 5,400 shares issuable upon the exercise of common stock purchase warrants that are exercisable within 60 days of November 30, 2010.
- (7) Includes 164,684 shares issuable upon the exercise of stock options that are exercisable within 60 days of November 30, 2010.
- (8) Includes 125,100 shares issuable upon the exercise of stock options that are exercisable within 60 days of November 30, 2010.
- (9) Includes 164,684 shares issuable upon the exercise of stock options that are exercisable within 60 days of November 30, 2010.
- (10) Includes 248,438 shares issuable upon the exercise of stock options that are exercisable within 60 days of November 30, 2010.
- (11) Includes 2,554,848 shares issuable upon the exercise of stock options, and 327,129 shares issuable upon the exercise of common stock purchase warrants that are exercisable within 60 days of November 30, 2010.

EQUITY COMPENSATION PLAN INFORMATION

The following table provides information as of September 30, 2010 with respect to shares of our Common Stock that may be issued under our equity compensation plans.

	Equit	y Compensatio	n Plan Infori	nation
Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	av exer of ou op wari	eighted verage cise price tstanding otions, rants and ights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders (1)	8,123,338	2	1.06	3,140,097
		Ψ		5,140,057
Equity compensation plans not approved by security holders	N/A		N/A	
Total	8,123,338			3,140,097

⁽¹⁾ Includes 6,591,338 shares subject to the 2004 Equity Incentive Plan and 1,532,000 shares subject to the 2000 Option Plan.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE.

A majority of the members of the Board are independent directors, as defined by the NASDAQ Marketplace Rules. The Board has determined that all of the Company's directors are independent, except Mr. Stewart, the Company's Executive Chairman and former Chief Executive Officer and Dr. Anzalone, the Company's Chief Executive Officer. Independent directors do not receive consulting, legal or other fees from the Company, other than Board compensation.

Nanotope and Leonardo were co-founded by the Company's President and Chief Executive Officer, Dr. Christopher Anzalone, through The Benet Group, since dissolved, and Dr. Anzalone owns approximately 14.2% and 15.9% of the outstanding voting securities of Nanotope and Leonardo, respectively. Dr. Anzalone does not hold options, warrants or any other rights to acquire securities of Nanotope or Leonardo. Dr. Anzalone has the right to appoint a representative to the Board of Directors of each Nanotope and Leonardo. Dr. Anzalone is serving as the President and Chief Executive Officer of Nanotope. Dr. Anzalone has not received any compensation for his work on behalf of Nanotope or Leonardo since joining the Company on December 1, 2007.

On December 11, 2009, the Company sold an aggregate of 5,083,430 units in a private placement transaction with accredited investors. Each unit consisted of one share of Arrowhead Common Stock and a warrant to purchase an additional share of Common Stock exercisable at \$0.509 per share. The unit price was \$0.634, based upon the closing bid price on the Company's Common Stock on December 11, 2009, which was \$0.509, plus \$0.125 for the purchase of the warrant, Dr. Anzalone, Arrowhead's President and CEO, participated in this transaction on the same terms, investing \$100,000.

During fiscal 2010, a portion of Arrowhead employee salary costs, including Dr. Anzalone's salary and administrative overhead was charged to Nanotope and Leonardo for management and administrative services provided by Arrowhead to Nanotope and Leonardo. During fiscal 2010, the charge for services provided to Nanotope and Leonardo were \$166,204 and \$250,190, respectively. In addition, Arrowhead made cash advances to Nanotope of \$300,000 during fiscal 2010. The majority of the balance due Arrowhead is expected to be repaid in cash or converted to equity in fiscal 2011. In addition, the CEO of Leonardo, Bruce Given, is the brother of Doug Given, a member of Arrowhead's Board of Directors; Doug Given has no financial interest in Leonardo.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The Audit Committee regularly reviews and determines whether specific projects or expenditures with our independent auditors, Rose, Snyder & Jacobs (RS&J), may potentially affect their independence. The Audit Committee's policy is to pre-approve all audit and permissible non-audit services provided by RS&J. Pre-approval is generally provided by the Audit Committee for up to one year, detailed to the particular service or category of services to be rendered and is generally subject to a specific budget. The Audit Committee may also pre-approve additional services of specific engagements on a case-by-case basis. All engagements of our independent registered public accounting firm in 2010 and 2009 were pre-approved by the audit committee.

The following table sets forth the aggregate fees invoiced by RS&J for the fiscal years ended September 30, 2010, and September 30, 2009:

	Year Ended	September 30,
	2010	2009
Audit fees (1)	\$126,200	\$ 117,000
Audit-related fees (2)	76,300	43,500
Tax fees (3)	47,050	56,900
All other fees (4)		57,500
Total	\$249,550	\$ 364,900

- (1) Fees invoiced by RS&J include year-end audit and quarterly reviews of Form 10-Q.
- (2) Fees invoiced by RS&J related to Arrowhead Comfort Letter and Consents, and other agreed-upon procedures.
- (3) This category consists of professional services rendered by RS&J for tax return preparation.
- (4) Fees in 2009 related to Sarbanes-Oxley compliance work.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

The following documents are filed as part of this Annual Report on Form 10-K:

(1) Financial Statements.

See Index to Financial Statements and Schedule on page F-1.

(2) Financial Statement Schedules.

See Index to Financial Statements and Schedule on page F-1. All other schedules are omitted as the required information is not present or is not present in amounts sufficient to require submission of the schedule, or because the information required is included in the consolidated financial statements or notes thereto.

(3) Exhibits.

The following exhibits are filed (or incorporated by reference herein) as part of this Annual Report on Form 10-K:

Exhibit Number	Document Description
3.1	Certificate of Incorporation of InterActive, Inc., a Delaware corporation, dated December 15, 2000. (1)
3.2	Certificate of Amendment of Certificate of Incorporation of InterActive Group, Inc., dated December 12, 2003 (effecting, among other things a change in the corporation's name to "Arrowhead Research Corporation"). (2)
3.3	Certificate of Amendment to Certificate of Incorporation of Arrowhead Research Corporation, dated January 25, 2005. (3)
3.4	Certificate of Amendment to Certificate of Incorporation of Arrowhead Research Corporation, dated October 13, 2009. (18)
3.5	Bylaws. (1)
3.6	Amendment No. 1 to the Bylaws of Arrowhead Research Corporation. (19)
4.1	Form of Registration Rights Agreement, July and August 2009. (4)
4.2	Form of Registration Rights Agreement, dated December 11, 2009. (18)
4.3	Form of Warrant to Purchase Common Stock expiring January 24, 2011. (5)
4.4	Form of Common Stock Warrant expiring in July and August 2013. (6)
4.5	Form of Common Stock Warrant expiring in September 2013. (7)
4.6	Form of Warrant to Purchase Capital Stock expiring June 2014. (4)
4.7	Form of Warrant to Purchase Capital Stock expiring December 11, 2014. (18)
4.8	Form of Warrant to Purchase Common Stock expiring May 2017. (8)
4.9	Form of Warrant to Purchase Common Stock, dated June 2010. (21)
4.10	Form of Warrant to Purchase Shares of Capital Stock of Arrowhead Research Corporation expiring September 16, 2015. (23)
4.11	Form of Common Stock Certificate. (9)
10.1**	Arrowhead Research Corporation (fka InterActive, Inc.) 2000 Stock Option Plan. (1)
10.2**	Arrowhead Research Corporation 2004 Equity Incentive Plan, as amended. (24)
10.3**	Executive Incentive Plan, adopted December 12, 2006. (11)
10.4**	Compensation Policy for Non-Employee Directors, as amended. (11)
10.5**	Severance Agreement dated May 24, 2007 by and between Arrowhead and R. Bruce Stewart. (8)
10.6**	Amendment to Severance Agreement between Arrowhead and R. Bruce Stewart, effective May 12, 2009. (18)
10.7**	Employment Agreement, between Arrowhead and Dr. Christopher Anzalone, dated June 11, 2008. (12)
10.8**	Amendment to Employment Agreement between Arrowhead and Dr. Christopher Anzalone, effective May 12, 2009. (18)
10.9	Insert Therapeutics, Inc. Amended and Restated Investors' Rights Agreement, dated April 17, 2008. (13)
10.10	Second Amended and Restated Investors' Rights Agreement, dated as of July 23, 2008, by and between Nanotope, Inc. and the Investors and Stockholders listed therein. (14)
10.11	Form of Unsecured Convertible Promissory Note Agreement dated November 26, 2008. (15)
10.12	Exchange Agreement dated February 25, 2009 by and among Arrowhead and several holders of Unidym, Inc. Series A Preferred Stock. (16)
10.13	Form of Subscription Agreement dated July 17, 2009 and August 6, 2009. (4)

10.14	Platform Agreement, dated as of June 23, 2009, by and between Calando Pharmaceuticals, Inc. and Cerulean Pharma Inc.† (17)
10.15	IT-101 Agreement, dated as of June 23, 2009, by and between Calando Pharmaceuticals, Inc. and Cerulean Pharma, Inc.† (17)
10.16	IP Transfer and Waiver Agreement, dated as of June 25, 2009, by and between Unidym, Inc. and TEL Venture Capital. (17)
10.17	Subscription Agreement for Series C-1 Preferred Stock, dated as of June 25, 2009, by and between Arrowhead Research Corporation and Unidym, Inc. (17)
10.18	Exchange Agreement, dated as of June 25, 2009, by and between Arrowhead Research Corporation and TEL Venture Capital. (17)
10.19	Subscription Agreement for Series C-1 Preferred Stock, dated as of July 30, 2009, by and between Arrowhead Research Corporation and Unidym, Inc. (17)
10.20	Form of Subscription Agreement, dated as of September 30, 2009, by and between Arrowhead Research Corporation and Unidym, Inc. (18)
10.21	Second Amended and Restated Investors' Rights Agreement among Unidym, Inc., Investors and the stockholders party thereto, dated September 30, 2009. (18)
10.22	Form of Subscription Agreement between Arrowhead Research Corporation and certain investors dated December 11, 2009. (19)
10.23**	Amendment to Employment Agreement between Arrowhead and R. Bruce Stewart, effective May 27, 2010. (20)
10.24	Form of Subscription Agreement between Arrowhead and certain Investors, dated June 17, 2010. (21)
10.25	Series D Preferred Stock Purchase Agreement between Arrowhead and Unidym, Inc., dated June 29, 2010. (22)
10.26	Form of Exchange Agreement between Arrowhead and certain stockholders, dated September 16, 2010. (23)
21.1	List of Subsidiaries.*
23.1	Consent of Independent Public Registered Accounting Firm.*
24.1	Power of Attorney (contained on signature page)
31.1	Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002*
31.2	Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002*
32.1	Certification by Chief Executive Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002*

* Filed herewith

32.2

- ** Indicates compensation plan, contract or arrangement.
- † Confidential treatment has been requested with respect to certain portions of this exhibit. Omitted portions have been filed separately with the Securities and Exchange Commission.
- (1) Incorporated by reference from the Schedule 14C, filed by the registrant on December 22, 2000.
- (2) Incorporated by reference from the Schedule 14C, filed by the registrant on December 22, 2003.
- (3) Incorporated by reference from the Quarterly Report on Form 10-QSB for the quarter ended December 31, 2004, filed by the registrant on February 11, 2005.
- (4) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on July 17, 2009.
- (5) Incorporated by reference from the Current Report on Form 8-K, filed by registrant on January 18, 2006.
- (6) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on August 26, 2008.

Certification by Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002*

- (7) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on September 11, 2008.
- (8) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on May 30, 2007.
- (9) Incorporated by reference from Amendment No. 2 to the Registration Statement on Form S-1, filed by the registrant on September 11, 2009.
- (10) Incorporated by reference from the definitive Schedule 14C filed by registrant on September 4, 2009.
- (11) Incorporated by reference from the Annual Report on Form 10-K, filed by the registrant on December 14, 2006.
- (12) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on June 13, 2008.
- (13) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on April 23, 2008.
- (14) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on July 25, 2008.
- (15) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on December 3, 2008.
- (16) Incorporated by reference from the Quarterly Report on Form 10-Q, filed by the registrant on May 15, 2009.
- (17) Incorporated by reference from the Quarterly Report on Form 10-Q, filed by the registrant on August 10, 2009.
- (18) Incorporated by reference from the Annual Report on Form 10-K, filed by the registrant on December 22, 2009.
- (19) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on April 27, 2010.
- (20) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on May 28, 2010.
- (21) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on June 18, 2010.
- (22) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on July 2, 2010.
- (23) Incorporated by reference from the Current Report on Form 8-K, filed by the registrant on September 22, 2010
- (24) Incorporated by reference from the Schedule 14C, filed by the registrant on April 30, 2010.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized, on this 22nd day of December 2010.

ARROWHEAD RESEARCH CORPORATION

By:	/S/ CHRISTOPHER ANZALONE
	Christopher Anzalone
	Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report on Form 10-K has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated:

Signature	Title	Date
/s/ Christopher Anzalone Christopher Anzalone	Chief Executive Officer, President and Director (Principal Executive Officer)	December 22, 2010
/s/ KENNETH A. MYSZKOWSKI Kenneth A. Myszkowski	Chief Financial Officer (Principal Financial and Accounting Officer)	December 22, 2010
/s/ Edward W. Frykman Edward W. Frykman	Director	December 22, 2010
/S/ MAURO FERRARI Mauro Ferrari	Director	December 22, 2010
/s/ Douglass Given Douglass Given	Director	December 22, 2010
/S/ CHARLES P. MCKENNEY Charles P. McKenney	Director	December 22, 2010
/s/ R. Bruce Stewart R. Bruce Stewart	Executive Chairman & Director	December 22, 2010

INDEX TO FINANCIAL STATEMENTS AND SCHEDULE

As a result of the change in control resulting from the stock exchange transaction (the "Share Exchange") with the owners of Arrowhead Research Corporation, a California corporation ("ARC"), the financial statements of the Company are deemed to be the historical financial statements of ARC.

Report of Independent Registered Public Accounting Firm	F-2
Consolidated Balance Sheets of Arrowhead Research Corporation and Subsidiaries, September 30, 2010 and 2009	F-3
Consolidated Statements of Operations of Arrowhead Research Corporation and Subsidiaries for the years ended September 30, 2010 and 2009 and the	
period from May 7, 2003 (inception) through September 30, 2010	F-4
Consolidated Statement of Stockholders' Equity of Arrowhead Research Corporation and Subsidiaries for the period from May 7, 2003 (inception)	
through September 30, 2010	F-5
Consolidated Statements of Cash Flows of Arrowhead Research Corporation and Subsidiaries for the years ended September 30, 2010 and 2009 and the	
period from May 7, 2003 (inception) through September 30, 2010	F-6
Notes to Consolidated Financial Statements of Arrowhead Research Corporation and Subsidiaries	F-8

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of Arrowhead Research Corporation

We have audited the accompanying consolidated balance sheets of Arrowhead Research Corporation (a Delaware corporation) and Subsidiaries (the "Company") as of September 30, 2010 and 2009 and the related consolidated statements of operations, stockholders' equity and cash flows for the years ended September 30, 2010, and 2009 and for the period from May 7, 2003 (inception) through September 30, 2010. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audit included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the consolidated financial position of Arrowhead Research Corporation and Subsidiaries as of September 30, 2010 and 2009, and the consolidated results of their operations and their cash flows for the years ended September 30, 2010 and 2009, and for the period from May 7, 2003 (inception) through September 30, 2010 in conformity with accounting principles generally accepted in the United States of America.

Rose, Snyder & Jacobs A Corporation of Certified Public Accountants

Encino, California

December 17, 2010

Arrowhead Research Corporation and Subsidiaries (A Development Stage Company) Consolidated Balance Sheets

	September 30, 2010	September 30, 2009
ASSETS		
CURRENT ASSETS		
Cash and cash equivalents	\$ 6,847,162	\$ 2,020,224
Trade receivable, net of allowance for doubtful accounts of \$90,789 at September 30, 2010 and \$30,789 at September 30, 2009	58,864	144,148
Other receivables	871,819	3,109
Prepaid expenses	239,097	316,074
Other current assets	114,833	_
TOTAL CURRENT ASSETS	8,131,775	2,483,555
PROPERTY AND EQUIPMENT		
Computers, office equipment and furniture	335,784	374,991
Research equipment	752,850	932,683
Software	150,445	150,445
Leasehold improvements	78,594	94,317
	1,317,673	1,552,436
Less: Accumulated depreciation and amortization	(1,176,404)	(1,025,392)
NET PROPERTY AND EQUIPMENT	141,269	527,044
OTHER ASSETS		
Rent deposit	34,735	109,648
Patents	2,046,836	2,362,460
Investment in Nanotope Inc., equity basis	1,812,927	2,032,467
Investment in Leonardo Biosystems Inc., at cost	187,000	187,000
TOTAL OTHER ASSETS	4,081,498	4,691,575
TOTAL ASSETS	\$ 12,354,542	\$ 7,702,174
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES		
Accounts payable	\$ 681,563	\$ 1,013,281
Accrued expenses	471,236	420,077
Accrued payroll and benefits	191,425	160,846
Accrued severance	23,500	23,500
Capital lease obligation	_	726,534
Derivative liability	2,408,522	_
Note payable	500,000	
TOTAL CURRENT LIABILITIES	4,276,246	2,344,238
LONG-TERM LIABILITIES		
Note payable		500,000
TOTAL LONG-TERM LIABILITIES	_	500,000
Commitments and contingencies		
STOCKHOLDERS' EQUITY		
Arrowhead Research Corporation shareholders' equity:		
Preferred stock, \$0.001 par value; 5,000,000 shares authorized; no shares issued or outstanding Common stock, \$0.001 par value; 145,000,000 shares authorized; 71,720,137 and 56,411,774 shares issued and	<u> </u>	_
outstanding as of September 30, 2010 and September 30, 2009, respectively	71,735	56,428
Additional paid-in capital	119,716,834	110,070,327
Subscription receivable		(300,000)
Accumulated deficit during the development stage	(110,742,867)	(104,968,819)
Total Arrowhead Research Corporation stockholders' equity	9,045,702	4,857,936
Noncontrolling interest	(967,406)	
TOTAL STOCKHOLDERS' EQUITY	8,078,296	4,857,936
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	\$ 12,354,542	\$ 7,702,174

 $\label{thm:company:equation:company:eq$

Arrowhead Research Corporation and Subsidiaries (A Development Stage Company) Consolidated Statements of Operations

	Year Ended S	September 30,	May 7, 2003 (Inception) to
	2010	2009	September 30, 2010
REVENUE	\$ 620,097	\$ 3,758,147	\$ 8,127,736
OPERATING EXPENSES			
Salaries	4,297,930	8,010,099	44,332,468
Consulting	514,041	1,461,351	8,346,198
General and administrative expenses	3,183,077	4,567,091	26,247,904
Research and development	1,111,473	8,892,516	54,731,631
Patent amortization	315,625	387,095	2,102,091
TOTAL OPERATING EXPENSES	9,422,146	23,318,152	135,760,292
OPERATING LOSS	(8,802,049)	(19,560,005)	(127,632,556)
OTHER INCOME (EXPENSE)			
Loss on equity of investments - Nanotope	(219,540)	(225,804)	(560,073)
Gain on sale of stock in subsidiary			2,292,800
Gain on sale of equity of investments - Ensysce	_	700,000	700,000
Gain/(loss) on sale of fixed assets, net	10,881	(77,374)	(66,493)
Realized and unrealized gain in marketable securities	_	_	382,264
Interest income (expense), net	(48,025)	(155,560)	2,761,930
Change in value of derivative liability	1,761,385	_	1,761,385
Other income	(87,032)	174,253	90,858
TOTAL OTHER INCOME	1,417,669	415,515	7,362,671
LOSS FROM CONTINUING OPERATIONS	(7,384,380)	(19,144,490)	(120,269,885)
Gain/(loss) from discontinued operations	(2,658)	(163,962)	(7,567,525)
Gain/(loss) on disposal of discontinued operations	430,000	_	789,375
INCOME (LOSS) FROM DISCONTINUED OPERATIONS	427,342	(163,962)	(6,778,150)
Provision for income taxes	_	_	(1,600)
NET LOSS	(6,957,038)	(19,308,452)	(127,049,635)
Less: Net loss attributable to noncontrolling interests	1,182,990	60	16,470,728
NET LOSS ATTRIBUTABLE TO ARROWHEAD	\$ (5,774,048)	\$(19,308,392)	\$ (110,578,907)
Earnings per share - basic and diluted:			
Loss from continuing operations attributable to Arrowhead common shareholders	\$ (0.10)	\$ (0.43)	
Income from discontinued operations attributable to Arrowhead common shareholders	0.01	_	
Net loss attributable to Arrowhead shareholders	\$ (0.09)	\$ (0.43)	
Weighted average shares outstanding - basic and diluted	64,342,448	45,169,015	

 $\label{thm:companying} \textit{The accompanying notes are an integral part of these consolidated financial statements.}$

Arrowhead Research Corporation and Subsidiaries (A Development Stage Company) Consolidated Statement of Stockholders' Equity from inception to September 30, 2010

	Common	Stock	Additional	Subscription	Accumulated Deficit during the	Noncontrolling	
	Shares	Amount	Paid-in Capital	Receivable	Development Stage	interest	Totals
Initial Issuance of Stock: Common stock & warrants issued for							
cash @ \$0.001 per unit	3,000,000	\$ 3,000	\$ —	s —	\$ —	\$ —	\$ 3,000
Common stock & warrants issued for	3,000,000	Ψ 3,000	Ψ	Ψ	Ψ	Ψ	Ψ 5,000
cash @ \$1.00 per unit	1,680,000	1,680	1,678,320	_	_	_	1,680,000
Stock issuance cost charged to							
additional paid-in capital	_	_	(168,000)	_	_	_	(168,000)
Net loss for period from inception to					(05.220)		(05.000)
September 30, 2003	4 600 000	4.600	1 510 220		(95,238)		(95,238)
Balance at September 30, 2003 Exercise of stock options	4,680,000 75,000	4,680 75	1,510,320 14,925		(95,238)	_	1,419,762 15,000
Common stock & warrants issued for	73,000	/ 3	14,523	<u>—</u>	_	_	13,000
cash @ \$1.00 per unit	475,000	475	474,525	_	_	_	475,000
Common stock & warrants issued for	,		,				Í
marketable securities @ \$1.00 per							
unit	500,000	500	499,500	_	_	_	500,000
Stock issuance cost charged to			(0.0 = 0.0)				(0.0.00)
additional paid-in capital	_	_	(96,500)	_	_	_	(96,500)
Common stock and warrants issued for cash @ \$1.50 per unit	6,608,788	6,609	9,906,573				9,913,182
Common stock issued in reverse	0,000,700	0,009	9,900,575	_	_	_	9,913,102
acquisition	705,529	706	(151,175)		_	_	(150,469)
Common stock issued as a gift for \$1.09			(===,=:=)				(===, ===)
per share	150,000	163	162,587	_	_	_	162,750
Common stock and warrants issued as							
stock issuance cost @ \$1.50 per unit	356,229	356	533,988	_	_	_	534,344
Stock issuance cost charged to			(00.00.0)				(00.00.00)
additional paid-in capital	_	_	(991,318)	_	_	_	(991,318)
Exercise of stock option @ \$0.20 per share	75,000	75	14,925				15,000
Exercise of stock options @ \$1.00 per	75,000	75	14,525		_	_	13,000
share	6,000	6	5,994	_	_	_	6,000
Stock-based compensation	_	_	175,653	_	_	_	175,653
Net loss for the year ended							
September 30, 2004					(2,528,954)	1,777,699	(751,255)
Balance at September 30, 2004	13,631,546	13,645	12,059,997	_	(2,624,192)	1,777,699	11,227,149
Exercise of warrants @ \$1.50 per share	13,812,888	13,813	20,705,522	_	_	_	20,719,335
Exercise of stock options @ \$1.00 per	25.000	25	24.075				25.000
share Common stock issued to purchase Insert	25,000	25	24,975		_	_	25,000
Therapeutics share @ \$3.98 per share	502,260	502	1,999,498				2,000,000
Common stock issued for services	12,500	12	49,988		_	_	50,000
Stock-based compensation		_	508,513	_	_	_	508,513
Change in percentage of ownership in							
subsidiary		_	230,087		_	_	230,087
Net loss for the year ended							
September 30, 2005					(6,854,918)	121,491	(6,733,427)
Balance at September 30, 2005	27,984,194	27,997	35,578,580		(9,479,110)	1,899,190	28,026,657
Exercise of stock options Common stock issued @ \$4.88 per	115,794	116	341,421	_	_	_	341,537
share	204,854	205	999,795	_	_	_	1,000,000
Common stock issued @ \$3.84 per	204,034	203	333,733				1,000,000
share	15,000	15	57,585	_	_	_	57,600
Common stock issued @ \$3.50 per							
share	5,590,000	5,590	19,539,410	_	_		19,545,000
Common stock issued @ \$5.91 per							
share	25,364	25	149,975	_	_	_	150,000
Common stock issued to purchase							
Calando Pharmaceuticals, Inc. @ \$5.17 per share	208,382	208	1,077,125				1,077,333
Stock-based compensation			1,369,478				1,369,478
Net loss for the year ended September			_,_ 00, 0				_,_ 55, 6
30, 2006		_ —			(18,997,209)	(964,752)	(19,961,961)
Balance at September 30, 2006	34,143,588	34,156	59,113,369	_	(28,476,319)	934,438	31,605,644

Exercise of stock options	186,164	186	434,541	_	_	_	434,727
Common stock issued @ \$5.78 per							
share, net Arrowhead's increase in proportionate	2,849,446	2,849	15,149,366	_	-	_	15,152,215
share of Insert Therapeutics' equity	_	_	2,401,394	_	_	_	2,401,394
Common stock issued for purchase of			, ,				, ,
Carbon Nanotechnologies, Inc. @	1 421 222	1 401	F 200 FC0				F 400 000
\$3.77 per share Stock-based compensation	1,431,222	1,431	5,398,569 2,175,544	_			5,400,000 2,175,544
Net loss for the year ended			2,170,011				2,170,011
September 30, 2007					(29,931,118)	(781,829)	(30,712,947)
Balance at September 30, 2007 Exercise of stock options	38,610,420 105,357	38,622 106	84,672,783 289,921	_	(58,407,437)	152,609	26,456,577 290,027
Common stock issued at approximately	103,337	100	209,921	_	<u>—</u>	_	290,027
\$1.80 per share, net	3,863,989	3,867	6,956,718	_	_	_	6,960,585
Arrowhead's increase in proportionate			1 720 002				1 720 062
share of Unidym's equity Common stock issued @ \$2.72 per	_	_	1,720,962	_	-	-	1,720,962
share to Rice University	50,000	50	135,950	_	_	_	136,000
Common stock issued @ \$2.83 per							
share to purchase shares of Unidym, Inc.	70,547	71	199,929	_			200,000
Common stock issued @ \$2.95 per	70,547	71	155,525				200,000
share to purchase MASA Energy,							
LLC	105,049	105	309,895	-	_	_	310,000
Common stock issued @ \$2.19 per share to Unidym for the acquisition							
of Nanoconduction	114,155	114	249,886	_	_	_	250,000
Common stock issued @ \$2.18 per							
share Stock-based compensation	15,000	15 —	32,685 3,187,397	_	<u>—</u>	<u>—</u>	32,700 3,187,397
Net loss for the year ended September	<u> </u>	<u> </u>	3,107,397	-	<u> </u>	<u> </u>	3,107,397
30, 2008					(27,089,030)	(152,609)	(27,241,639)
Balance at September 30, 2008	42,934,517	42,950	97,756,126	_	(85,496,467)	_	12,302,609
Common Stock issued @ \$0.55 per share to Unidym stockholder in							
exchange for Unidym's shares	2,058,393	2,059	1,131,617	_	_		1,133,676
Common Stock issued @ \$0.52 per	_,000,000	_,000	1,151,617				1,100,070
share to TEL Ventures in exchange							
for Unidym's shares Reclassification of former Unidym	2,222,222	2,222	1,156,111	_	_	<u> </u>	1,158,333
mezzanine debt to equity	_	_	2,000,000	_	_	_	2,000,000
Arrowhead's increase in proportionate							
share of Calando's equity	_	_	2,120,250	_	_	_	2,120,250
Common stock issued @ \$0.30 per share	9,196,642	9,197	2,749,796	_	_		2,758,993
Change in percentage of ownership in	3,130,012	5,157	2,7 13,730				2,750,555
subsidiary	_	_	16,297	_	_	_	16,297
Stock-based compensation Issuance of Series D Preferred Stock for	_	_	2,676,170	_	_	_	2,676,170
Subscription in Unidym	_	_	300,000	(300,000)	_	_	_
Amortization of discount on Unidym			200,000	(000,000)			
Series D Preferred Stock	_	_	163,960	_	(163,960)	_	
Net loss for the year ended September 30, 2009	_	_			(19,308,392)	_	(19,308,392)
Balance at September 30, 2009	56,411,774	56,428	110,070,327	(300,000)	(104,968,819)		4,857,936
Exercise of stock options	6,875	7	7,624	—	—	_	7,631
Issuance of Series D Preferred Stock for				200 000			200 000
Subscription in Unidym Issuance of Unidym's common stock to		_		300,000	_		300,000
minority shareholders	_	_	245,345	_	_	54,655	300,000
Common stock issued @ \$0.63 per	F 05-						
share Common stock issued @ \$1.312 per	5,083,430	5,083	3,217,813	_	_	_	3,222,896
share	6,592,989	6,593	3,692,078	_	<u> </u>	_	3,698,671
Common Stock issued to Calando	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,				, ,
stockholders in exchange for	1 220 000	1 330	(100.005)			150 445	
Calando's shares Common Stock issued to Unidym	1,220,000	1,220	(160,667)	<u> </u>	_	159,447	
stockholders in exchange for							
Unidym's shares	153,176	153	(1,435)	_	_	1,282	_
Stock-based compensation	2.251.002		1,582,149		_		1,582,149
Exercise of warrants Net loss for the year ended	2,251,893	2,251	1,063,600	_	_	200	1,066,051
September 30, 2010	_	_	_	_	(5,774,048)	(1,182,990)	(6,957,038)
Balance at September 30, 2010	71,720,137	\$71,735	\$119,716,834	\$ —	\$ (110,742,867)	\$ (967,406)	\$ 8,078,296
				_			_

 $\label{thm:companying} \textit{The accompanying notes are an integral part of these consolidated financial statements.}$

Arrowhead Research Corporation and Subsidiaries (A Development Stage Company) Consolidated Statements of Cash Flows

	Year ended September 30,		
	2010	2009	May 7, 2003 (Date of inception) t September 30, 2010
H FLOWS FROM OPERATING ACTIVITIES:	# (COTT 000)	# (10 DOD 150)	A (12=010.62
Net Loss	\$ (6,957,038)	\$(19,308,452)	\$ (127,049,63
Plus: Net loss attributable to noncontrolling interests	1,182,990	(10.300.303)	16,470,72
Net loss attributable to Arrowhead	(5,774,048)	(19,308,392)	(110,578,90
(Income)/loss from discontinued operation	(427,342)	163,962	6,779,75
Realized and unrealized gain on investment		(700,000)	(1,082,26 (306,34
Gain from sale of subsidiary (Gain)/loss on disposal of fixed assets	(10,881)	— 77,374	(506,54
Stock issued as gift to Caltech	(10,001)	//,3/4	162,75
Stock issued as gift to Rice University	<u> </u>		136,00
Stock issued for professional services	<u>_</u>	<u></u>	232,70
Stock issued for in-process research and development	_	_	13,166,34
Change in percentage of ownership in subsidiary	_	16,297	16,29
Change in value of derivative liability	(1,761,385)		(1,761,38
Purchased in-process research and development - Nanoconduction		2,292,009	2,685,20
Stock-based compensation	1,582,149	2,676,170	11,674,90
Depreciation and amortization	654,689	994,604	5,392,33
Gain on sale of stock in subsidiary	_	<u> </u>	(2,292,80
Non-cash loss from equity investment	219,540	225,804	560,0
Noncontrolling interest	(1,182,990)	(60)	(17,470,9)
Gain on renegotiation of accrued severance		(726,500)	(726,5
(Increase) decrease of cash flow from:			
Receivables	85,282	(60,658)	(62,8
Other receivables	(868,710)		(868,7
Other prepaid expenses	76,978	64,859	(241,5
Other current assets	(114,833)	_	(114,8
Deposits	74,913	144,641	(36,7
Accounts payable	(331,718)	(328,659)	47,6
Accrued expenses	51,158	(326,536)	81,6
Accrued severance and other liabilities	30,579	(318,448)	958,6
Purchase of marketable securities - US Treasury Bills Purchase of property and equipment	(5,407)	(40,245)	(18,575,9) (3,555,9)
Purchase of MASA Energy, LLC	· - ·	_	(250,0
		_ _	
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica	— — —	_ _ _	(2,000,0 (4,000,0
Purchase of MASA Energy, LLC Minority equity investment		_ _ _ _	(2,000,0 (4,000,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert	— — — —	_ _ _ _	(2,000,0 (4,000,0 (5,000,0 (10,150,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando	— — — — —	(800,000)	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym	——————————————————————————————————————	(800,000) (2,137,003)	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego	——————————————————————————————————————	(800,000)	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica		(800,000) (2,137,003)	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex		(800,000) (2,137,003)	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert		(800,000) (2,137,003) 1,700,000 — —	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando		(800,000) (2,137,003) 1,700,000 ———————————————————————————————	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym		(800,000) (2,137,003) 1,700,000 ———————————————————————————————	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Unidym Cash paid/obtained from interest in Tego		(800,000) (2,137,003) 1,700,000 ———————————————————————————————	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills		(800,000) (2,137,003) 1,700,000 — — 800,000 2,137,003 (1,700,000) —	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments		(800,000) (2,137,003) 1,700,000 ———————————————————————————————	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of subsidiary (net)	——————————————————————————————————————	(800,000) (2,137,003) 1,700,000 — — 800,000 2,137,003 (1,700,000) — 700,000 —	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets		(800,000) (2,137,003) 1,700,000 — — 800,000 2,137,003 (1,700,000) —	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3 142,3
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents		(800,000) (2,137,003) 1,700,000 — — 800,000 2,137,003 (1,700,000) — 700,000 —	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3 142,3 (303,4
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Unidym Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF		(800,000) (2,137,003) 1,700,000 800,000 2,137,003 (1,700,000) 700,000 79,375	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3 142,3 (303,4 50,7
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Aonex Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS		(800,000) (2,137,003) 1,700,000 — — 800,000 2,137,003 (1,700,000) — 700,000 —	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3 142,3 (303,4 50,7
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS SH FLOWS FROM FINANCING ACTIVITIES OF CONTINUING OPERATIONS:		(800,000) (2,137,003) 1,700,000 800,000 2,137,003 (1,700,000) 700,000 79,375 739,130	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3 142,3 (303,4 50,7
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS H FLOWS FROM FINANCING ACTIVITIES OF CONTINUING OPERATIONS: Payments of capital leases		(800,000) (2,137,003) 1,700,000 — — 800,000 2,137,003 (1,700,000) — 700,000 — 79,375 — — 739,130 (810,456)	(2,000,0 (4,000,0 (5,000,0 (10,150,0 (8,800,0 (14,138,0 (801,0 4,000,0 5,001,2 10,529,5 8,800,0 14,138,0 801,0 18,888,2 1,269,9 359,3 142,3 (303,4 50,7 (3,593,7
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS Payments of capital leases Proceeds from issuance of Calando debt	57,593 (726,534)	(800,000) (2,137,003) 1,700,000 — — — 800,000 2,137,003 (1,700,000) — 700,000 — 79,375 — — — 739,130 (810,456) 2,516,467	(2,000,00 (4,000,00 (5,000,00 (10,150,00 (8,800,00 (14,138,00 (801,00 4,000,00 5,001,2: 10,529,5: 8,800,00 14,138,00 801,00 18,888,2: 1,269,9 359,3: 142,3: (303,4: 50,7: (3,593,7: (1,677,00 2,516,4)
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of sixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS H FLOWS FROM FINANCING ACTIVITIES OF CONTINUING OPERATIONS: Payments of capital leases Proceeds from issuance of Calando debt Proceeds from sale of stock in subsidiary	57,593 (726,534) — 600,000	(800,000) (2,137,003) 1,700,000 ——————————————————————————————	(2,000,00 (4,000,00 (5,000,00 (10,150,00 (8,800,00 (14,138,00 (801,00 4,000,00 5,001,2: 10,529,5: 8,800,00 14,138,00 801,00 18,888,2: 1,269,9 359,3: 142,3: (303,44 50,7: (3,593,7: (1,677,00 2,516,44 19,175,10
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Insert Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of fixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS BY FROM FINANCING ACTIVITIES OF CONTINUING OPERATIONS: Payments of capital leases Proceeds from sale of stock in subsidiary Proceeds from sale of stock in subsidiary Proceeds from sale of stock in subsidiary	57,593 (726,534)	(800,000) (2,137,003) 1,700,000 — — — 800,000 2,137,003 (1,700,000) — 700,000 — 79,375 — — — 739,130 (810,456) 2,516,467	(250,00 (2,000,00 (4,000,00 (5,000,00 (10,150,00 (8,800,00 (14,138,00 4,000,00 5,001,25 10,529,55 8,800,00 14,138,00 801,00 18,888,26 1,269,93 359,37 142,37 (303,44 50,77 (3,593,73 (1,677,00 2,516,46 19,175,16 90,787,35
Purchase of MASA Energy, LLC Minority equity investment Cash paid for interest in Nanotechnica Cash paid for interest in Aonex Cash paid for interest in Insert Cash paid for interest in Calando Cash paid for interest in Unidym Cash paid/obtained for interest in Tego Cash obtained from interest in Nanotechnica Cash obtained from interest in Nanotechnica Cash obtained from interest in Insert Cash obtained from interest in Insert Cash obtained from interest in Calando Cash obtained from interest in Unidym Cash paid/obtained from interest in Tego Proceeds from sale of marketable securities - US Treasury Bills Proceeds from sale of investments Proceeds from sale of subsidiary (net) Proceeds from sale of sixed assets Payment for patents Restricted cash NET CASH PROVIDED BY (USED IN) INVESTING ACTIVITIES OF CONTINUING OPERATIONS H FLOWS FROM FINANCING ACTIVITIES OF CONTINUING OPERATIONS: Payments of capital leases Proceeds from issuance of Calando debt Proceeds from sale of stock in subsidiary	57,593 (726,534) — 600,000	(800,000) (2,137,003) 1,700,000 ——————————————————————————————	(2,000,00 (4,000,00 (5,000,00 (10,150,00 (8,800,00 (14,138,00 (801,00 4,000,00 5,001,25 10,529,58 8,800,00 14,138,00 801,00 18,888,20 1,269,93 359,33 142,33 (303,44 50,73 (3,593,73 (1,677,00 2,516,40 19,175,10

Operating cash flows	(2,658)	(163,962)	(7,567,525)
Investing cash flows	430,000		789,375
Net cash provided by (used in) discontinued operations:	427,342	(163,962)	(6,778,150)
NET INCREASE (DECREASE) IN CASH	4,826,938	(8,073,361)	6,847,162
CASH AT BEGINNING OF PERIOD	2,020,224	10,093,585	
CASH AT END OF PERIOD	\$ 6,847,162	\$ 2,020,224	\$ 6,847,162
Supplementary disclosures:			
Interest paid	\$ 26,905	\$ 88,267	\$ 125,419

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

Arrowhead Research Corporation and Subsidiaries (A Development Stage Company)

Consolidated Statements of Cash Flows—(Continued)

SUPPLEMENT NON CASH TRANSACTIONS

On March 23, 2005, Arrowhead purchased 7,375,000 shares of Insert Therapeutics, Inc. common stock from two minority stockholders of Insert for 502,260 newly issued shares of Arrowhead Common Stock valued at \$2,000,000 based on the closing market price of Arrowhead Common Stock on NASDAQ on the date of the closing.

On March 31, 2006, Arrowhead purchased 964,000 shares of Calando Pharmaceuticals, Inc. common stock from minority stockholders of Calando for \$1,928,000 consisting of 208,382 newly issued shares of Arrowhead Common Stock valued at \$1,077,333 plus \$850,667 in cash. The 208,382 shares of Arrowhead Common Stock were valued based on the average closing price of Arrowhead's Common Stock on NASDAQ the ten trading days immediately prior to the date of the closing.

On April 20, 2007, Arrowhead purchased the Series E Preferred Stock of Carbon Nanotechnologies, Inc. in exchange for 1,431,222 shares of Arrowhead Common Stock with an estimated fair market value of \$5,400,000 based on the average closing price of Arrowhead's Common Stock on NASDAQ the ten trading days immediately prior to March 24, 2007, as set forth in the Agreement and Plan of Merger among Unidym, Carbon Nanotechnologies, Inc., Arrowhead, and others.

On April 23, 2008, Arrowhead purchased 200,000 shares of the Common Stock of Unidym Inc., in exchange for 70,547 shares of Arrowhead Common Stock with an estimated fair market value of \$200,000 based on the average closing price of Arrowhead's Common Stock on NASDAQ the ten trading days immediately prior to the date of the closing.

On April 29, 2008, Arrowhead purchased all of the membership units of MASA Energy, LLC for \$560,000. The purchase price consisted of 105,049 shares of Arrowhead Common Stock with an estimated fair market value of \$310,000 based on the average closing price of Arrowhead's Common Stock on NASDAQ the ten trading days immediately prior to the date of the closing, plus \$250,000 in cash.

On August 8, 2008, Unidym acquired all of the outstanding stock of Nanoconduction, Inc. in exchange for 114,115 shares of Arrowhead stock with an estimated fair market value of \$250,000.

On June 11, 2009, Arrowhead issued 1,324,625 shares of Common Stock with an estimated fair market value of \$688,802 in exchange for an equal number of Series A Preferred Stock of Unidym, with minority stockholders of Unidym.

On June 25, 2009, Arrowhead issued 1,944,444 shares of Common Stock with an estimated fair market value of \$972,222 in exchange for an equal number of Series C Preferred Stock of Unidym, with a minority stockholder of Unidym.

On September 22, 2009, Arrowhead issued 91,495 shares of Common Stock with an estimated fair market value of \$46,662 in exchange for an equal number of Series A Preferred Stock of Unidym with a minority stockholder of Unidym.

On September 28, 2009, Arrowhead issued 642,273 shares of Common Stock with an estimated fair market value of \$398,209 in exchange for 5,574 shares of Series A Preferred Stock and 636,699 shares of Series C Preferred Stock of Unidym, with several minority stockholders of Unidym.

On September 30, 2009, Arrowhead issued 277,778 shares of Common Stock with an estimated fair market value of \$186,111 in exchange for an equal number of Series C-1 Preferred Stock of Unidym, with a minority stockholder of Unidym.

In October and November 2009, Arrowhead issued 153,176 shares of Common Stock with an estimated fair market value of \$47,485 in exchange for an equal number of shares of Series C Preferred Stock of Unidym, with several minority stockholders of Unidym.

In October and November 2009, Arrowhead issued 1,140,000 shares of Common Stock with an estimated fair market value of \$706,800 in exchange for 2,850,000 shares of Calando common stock, with several minority stockholders of Calando. In conjunction with the exchange, Arrowhead also issued 240,000 Warrants to purchase Arrowhead Common Stock in exchange for 600,000 Warrants to purchase Calando common stock.

In February 2010, Arrowhead issued 80,000 shares of Common Stock and 24,000 warrants to purchase Arrowhead Common Stock, at an exercise price of \$0.50, to several Calando shareholders, in exchange for 200,000 shares of Calando common stock and 60,000 warrants to purchase Calando common stock.

In March 2010, a warrant holder exercised 247,880 warrants to purchase Arrowhead Common Stock, in a cashless exercise, whereby Arrowhead issued to the warrant holder 128,707 shares of Arrowhead Common Stock.

In September 2010, Arrowhead issued warrants to purchase 3,906,250 shares of Arrowhead Common Stock, at an exercise price of \$0.50, to two Calando shareholders, in exchange for 1,562.5 shares of Series A Preferred Stock of Calando Pharmaceuticals, Inc.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

Unless otherwise noted, (1) the term "Arrowhead" refers to Arrowhead Research Corporation, a Delaware corporation formerly known as InterActive Group, Inc., (2) the terms the "Company," "we," "us," and "our," refer to the ongoing business operations of Arrowhead and its Subsidiaries, whether conducted through Arrowhead or a subsidiary of Arrowhead, (3) the term "ARC" refers to Arrowhead Research Corporation, a privately-held California corporation with which Arrowhead consummated a stock exchange transaction in January 2004, (4) the term "Subsidiaries" refers collectively to Calando Pharmaceuticals, Inc. ("Calando"), Unidym, Inc. ("Unidym"), Agonn Systems, Inc. ("Agonn",) and Tego Biosciences Corporation ("Tego"), the term "Minority Investments" refers collectively to Nanotope, Inc. ("Nanotope") and Leonardo Biosystems, Inc. ("Leonardo") in which the company holds a less than majority ownership position, and (5) the term "Common Stock" refers to Arrowhead's Common Stock and the term "stockholder(s)" refers to the holders of Common Stock or securities exercisable for Common Stock.

NOTE 1. ORGANIZATION AND SIGNIFICANT ACCOUNTING POLICIES

Nature of Business and Going Concern

Arrowhead Research Corporation is a development stage nanotechnology holding company that forms, acquires, and operates subsidiaries commercializing innovative nanotechnologies. By working closely with leading scientists and universities, Arrowhead identifies advances in nanotechnology and matches them with product development opportunities in high-growth markets. The Company is focusing on the field of nanomedicine. Arrowhead has two major subsidiaries, Unidym and Calando, and has minority investments in two early-stage nanotechnology companies, Nanotope, Inc. ("Nanotope") and Leonardo Biosystems, Inc. ("Leonardo").

Liquidity

As a development stage company, Arrowhead has historically financed its operations through the sale of securities of Arrowhead and its Subsidiaries. Development activities at our Subsidiaries, in particular Calando and Unidym, has required significant capital investment since the Company's inception in 2003 and is expected to continue to require significant cash investment in fiscal 2011 to continue development.

At September 30, 2010, Arrowhead had cash on hand of approximately \$6.8 million on a consolidated basis. Cash and cash equivalents increased during the 2010 fiscal year by \$4.8 million to \$6.8 million at September 30, 2010 from \$2.0 million at September 30, 2009.

Cash used in operating activities was \$7.6 million, which represents the on-going expenses of Arrowhead and its Subsidiaries. Cash provided from financing activities was \$12.0 million. As further described below, there were two significant equity financings during fiscal 2010 with total net proceeds of \$11.1 million. In addition, warrants were exercised during the year which yielded proceeds of \$1.1 million. Proceeds from financing activities also include \$0.6 million related to cash investments in Unidym. Finally, payments on capital lease obligations were \$0.7 million. Cash flow from discontinued operations was \$0.4 million, related to the sale of the Company's intellectual property assets of Tego Biosciences to Luna Innovations Inc. The Company's operation of Tego has ceased, however the asset purchase agreement with Luna Innovations, Inc. allows for certain royalties and milestone payments.

The Company's strategic plan includes focusing on near term revenue opportunities, conserving cash and seeking sources of new capital. To execute this plan, the Company will seek to accomplish one or more of the following on favorable terms: the out-license of technology, sale of a subsidiary, sale of non-core assets, funded joint development or partnership arrangements and sale of securities. The Company is actively involved in discussions with third parties regarding several of these alternatives. However, until such time as one or more of these efforts can be accomplished, the Company will continue to conserve cash while investing in its core operations.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

The Company's management anticipates that the Company will be able to satisfy the cash requirements of its operations through at least the next twelve months with current cash resources. The Company anticipates that further equity financings, and/or asset sales and license agreements will be necessary to continue to fund operations in the future.

Summary of Significant Accounting Policies

Principles of Consolidation—The consolidated financial statements of the Company include the accounts of Arrowhead and its wholly-owned and majority-owned Subsidiaries. Prior to April 2008, Arrowhead's Subsidiaries included Insert Therapeutics, Inc. ("Insert"), which was merged with Calando in April 2008. The merged entity is majority-owned by Arrowhead and continues to operate under the name of Calando. At September 30, 2010, other Subsidiaries included Unidym, Tego, and Agonn. On December 23, 2009, Tego completed a sale of its assets to Luna Innovations, Inc. and Tego results are included in the Income (Loss) from Discontinued Operations. Income (Loss) from Discontinued Operations also includes Aonex Technologies, Inc. ("Aonex"), sold in May 2008 and Nanotechnica, Inc. ("Nanotechnica"), dissolved in June 2005. All significant intercompany accounts and transactions are eliminated in consolidation, and noncontrolling interests are accounted for in the Company's financial statements.

Basis of Presentation and Use of Estimates—The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the accompanying financial statements. Significant estimates made in preparing these financial statements include valuing the stock of the Subsidiaries, assumptions to calculate stock-based compensation expense, allowance for doubtful accounts, deferred tax asset valuation allowance, derivative liabilities, noncontrolling interest and useful lives for depreciable and amortizable assets. Actual results could differ from those estimates. Additionally, certain reclassifications have been made to prior period financial statements to conform to the current period presentation. In the opinion of management, all adjustments, including normal recurring accruals considered necessary for a fair presentation, have been included.

Cash and Cash Equivalents—The Company considers all liquid debt instruments purchased with a maturity of three months or less to be cash equivalents.

Credit Risk—The Company extends credit to its customers in the normal course of business and generally does not require collateral or other security. The Company performs ongoing credit evaluations of its customers' financial condition and historically has not incurred significant credit losses.

Concentration of Credit Risk—The Company maintains checking accounts for Arrowhead and separate accounts for each Subsidiary at any of three financial institutions. These accounts are insured by the Federal Deposit Insurance Corporation (FDIC) for up to \$250,000 per account. The Company has two wealth management accounts at the same financial institutions that invest in higher yield money market accounts and in government securities. Management believes the Company is not exposed to significant credit risk due to the financial position of the depository institution in which these deposits are held.

Property and Equipment—Property and equipment are recorded at cost. Depreciation of property and equipment is recorded using the straight-line method over the respective useful lives of the assets ranging from three to seven years. Leasehold improvements are amortized over the lesser of the expected useful life or the remaining lease term.

Intellectual Property—At September 30, 2010, intellectual property consisted of patents and patent applications licensed or purchased in the gross amount of \$4,093,624. The accumulated amortization of patents totaled \$2,046,788 at September 30, 2010. Patents are amortized over three years to twenty years. The weighted average original amortization period is twelve years. The weighted average remaining amortization period is eight years. Amortization is expected to be \$315,624 in fiscal 2011, and \$241,808 for fiscal years 2012, 2013, 2014 and 2015, and \$763,980 thereafter. Long-lived assets, such as property, equipment and intangible assets subject to amortization are reviewed for impairment whenever events or circumstances indicate that the carrying amount of these assets may not be recoverable. In reviewing for impairment, we compare the carrying value of such assets to the estimated undiscounted future cash flows expected from the use of the assets and their eventual disposition. When the estimated undiscounted future cash flows are less than their carrying amount, an impairment loss is recognized equal to the difference between the assets' fair value and their carrying value.

Equity Investments—Arrowhead has a non-controlling equity investment in Nanotope, a privately held biotechnology company, which is recorded in Other Assets. This investment is carried at cost less Arrowhead's proportionate share of Nanotope's operating loss for the period since investment. Arrowhead utilizes the equity method of accounting as it owns more than 20% of the voting equity and has the ability to exercise significant influence over this company. This investment is risky as the markets for technologies or products of Nanotope are still in the development stage and such markets may never be significant. Arrowhead could lose its entire investment in Nanotope. Arrowhead monitors this investment for impairment and makes appropriate reductions in carrying value when necessary.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

Minority Equity Investments—The Company's minority equity investment in Leonardo, a privately held biotechnology company, is recorded in Other Assets. This investment is accounted for under the cost method of accounting as Arrowhead owns less than 20% of the voting equity and only has the ability to exercise nominal, not significant, influence over this company. This investment is risky as the markets for technologies or products of Leonardo are still in the development stage and such markets may never be significant. Arrowhead could lose its entire investment in Leonardo. Arrowhead monitors this investment for impairment and makes appropriate reductions in carrying value when necessary.

Noncontrolling Interests in Majority-Owned Subsidiaries—Operating losses applicable to majority-owned Calando and Unidym have periodically exceeded the noncontrolling interests in the equity capital of either Subsidiary. Such excess losses applicable to the noncontrolling interests have been and are borne by the Company as there is no obligation of the noncontrolling interests to fund any losses in excess of their original investment. There is also no obligation or commitment on the part of the Company to fund operating losses of any Subsidiary whether wholly-owned or majority-owned. The Company allocates the noncontrolling interest's share of net loss in excess of the noncontrolling interest's initial investment in accordance with FASB ASC 810-10, which was effective for the Company on October 1, 2009.

When there is a change in the Company's proportionate share of a development-stage Subsidiary resulting from additional equity transactions in a Subsidiary, the change is accounted for as an equity transaction in consolidation. To the extent that the increase in the calculated value of the Company's interest in the equity of the Subsidiary exceeds the Company's investment in the offering, that increase in value is referred to as the Company's "increase in its proportionate share of the Subsidiary's equity" and the amount is recorded as an increase in the Company's Additional Paid-in Capital.

Revenue Recognition—Revenue from product sales are recorded when persuasive evidence of an arrangement exists, title has passed and delivery has occurred, a price is fixed and determinable, and collection is reasonably assured. We may generate revenue from product sales, technology licenses, collaborative research and development arrangements, and research grants. Revenue under technology licenses and collaborative agreements typically consists of nonrefundable and/or guaranteed technology license fees, collaborative research funding and various milestone and future product royalty or profit-sharing payments.

Revenue associated with research and development funding payments, under collaborative agreements, is recognized ratably over the relevant periods specified in the agreement, generally the research and development period. Revenue from up-front license fees and milestones and product royalties are recognized as earned based on the completion of the milestones and product sales, as defined in the respective agreements. Payments received in advance of recognition as revenue are recorded as deferred revenue.

Cost of Goods Sold—The production of nanotubes by Unidym has been primarily for research and development activities. Therefore, the nanotubes produced are not capitalized as inventory, nor is a cost of goods sold calculated, even though some nanotubes are eventually sold to third parties.

Allowance for Doubtful Accounts—The Company accrues an allowance for doubtful accounts based on estimates of uncollectible revenues by analyzing historical collections, accounts receivable aging and other factors. Accounts receivable are written off when all collection attempts have failed.

Research and Development—Costs and expenses that can be clearly identified as research and development are charged to expense as incurred in accordance with FASB ASC 730-10.

Earnings (Loss) per Share—Basic earnings (loss) per share is computed using the weighted-average number of common shares outstanding during the period. Diluted earnings (loss) per share are computed using the weighted-average number of common shares and dilutive potential common shares outstanding during the period. Dilutive potential common shares primarily consist of stock options issued to employees and consultants and warrants to purchase Common Stock of the Company. Dilutive earnings (loss) per share has not been presented, because the effect is anti-dilutive.

Stock-Based Compensation—The Company accounts for share-based compensation arrangements in accordance with FASB ASC 718, which requires the measurement and recognition of compensation expense for all share-based payment awards to be based on estimated fair values. We use the Black-Scholes option valuation model to estimate the fair value of our stock options at the date of grant. The Black-Scholes option valuation model requires the input of subjective assumptions to calculate the value of stock options. We use historical data among other information to estimate the expected price volatility and the expected forfeiture rate.

Income Taxes—The Company accounts for income taxes under the liability method, which requires the recognition of deferred income tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements or tax returns. Under this method, deferred income taxes are recognized for the tax consequences in future years of differences between the tax bases of assets and liabilities and their financial reporting amounts at each period end based on enacted tax laws and statutory tax rates applicable to the periods in which the differences are expected to affect taxable income. Valuation allowances are established, when necessary, to reduce deferred income tax assets to the amount expected to be realized. The provision for income taxes, if any, represents the tax payable for the period and the change in deferred income tax assets and liabilities during the period.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

Recently Issued Accounting Standards

In January 2010, the FASB issued Accounting Standards Update ASU No. 2010-06, "Fair Value Measurements and Disclosures (Topic 820) – Improving Disclosures about Fair Value Measurements". This guidance requires new disclosures related to recurring and nonrecurring fair value measurements. The guidance requires disclosure of transfers of assets and liabilities between Level 1 and Level 2 of the fair value measurement hierarchy, including the reasons and the timing of the transfers and information on purchases, sales, issuance, and settlements on a gross basis in the reconciliation of the assets and liabilities measured under Level 3 of the fair value measurement hierarchy. The adoption of this guidance is effective for interim and annual reporting periods beginning after December 15, 2009. We have adopted this guidance in the financial statements presented herein, which did not impact our consolidated financial position or results of operations.

In October 2009, the FASB issued ASU 2009-13, which amends ASC Topic 605, *Revenue Recognition*. This new accounting guidance relates to the revenue recognition of multiple element arrangements. The new guidance states that if vendor specific objective evidence or third party evidence for deliverables in an arrangement cannot be determined, companies will be required to develop a best estimate of the selling price for separate deliverables and allocate arrangement consideration using the relative selling price method. We adopted this guidance as of January 1, 2010 on a prospective basis. The adoption of this guidance did not have a material impact on our consolidated financial statements.

On July 1, 2009, the FASB issued the FASB Accounting Standards Codification (the Codification). The Codification became the single source of authoritative non-governmental U.S. generally accepted accounting principles ("GAAP"), superseding existing FASB, American Institute of Certified Public Accountants ("AICPA"), Emerging Issues Task Force ("EITF") and related literature. The Codification eliminates the previous US GAAP hierarchy and establishes one level of authoritative GAAP. All other literature is considered non-authoritative. The Codification was effective for interim and annual periods ending after September 15, 2009. The Company adopted the Codification for the year ended September 30, 2009. This guidance did not change GAAP; therefore it did not have an impact on our consolidated financial statements. References within this note and throughout our financial statements to authoritative guidance issued by the FASB are in reference to the codification.

Recent Accounting Guidance Not Yet Adopted

Management does not believe that any recently issued, but not yet effective, accounting standards, if currently adopted, would have a material effect on the accompanying financial statements.

In June 2010, the FASB issued ASU No. 2010-17, Revenue Recognition—Milestone Method (Topic 605): Milestone Method of Revenue Recognition. This ASU codifies the consensus reached in EITF Issue No. 08-9, "Milestone Method of Revenue Recognition." The amendments to the Codification provide guidance on defining a milestone and determining when it may be appropriate to apply the milestone method of revenue recognition for research or development transactions. Consideration that is contingent on achievement of a milestone in its entirety may be recognized as revenue in the period in which the milestone is achieved only if the milestone is judged to meet certain criteria to be considered substantive. Milestones should be considered substantive in their entirety and may not be bifurcated. An arrangement may contain both substantive and nonsubstantive milestones, and each milestone should be evaluated individually to determine if it is substantive. This guidance will be effective for the fiscal year beginning October 1, 2010. The Company does not expect the adoption of these amendments to have a material impact on the consolidated financial statements.

In June 2009, the FASB issued amendments to the accounting rules for variable interest entities (VIEs) and for transfers of financial assets, codified as ASC 860-10. The new guidance for VIEs eliminates the quantitative approach previously required for determining the primary beneficiary of a variable interest entity and requires ongoing qualitative reassessments of whether an enterprise is the primary beneficiary. In addition, qualifying special purpose entities ("QSPEs") are no longer exempt from consolidation under the amended guidance. The amendments also limit the circumstances in which a financial asset, or a portion of a financial asset, should be derecognized when the transferor has not transferred the entire original financial asset to an entity that is not consolidated with the transferor in the financial statements being presented, and/or when the transferor has continuing involvement with the transferred financial asset. This guidance is effective as of the beginning of a reporting entity's first annual reporting period that begins after November 15, 2009 and for interim periods within the first annual reporting period. The Company does not expect the adoption of these amendments to have a material impact on the consolidated financial statements.

In June 2009, the FASB issued guidance codified as ASC 470-20, regarding accounting for own-share lending arrangements in contemplation of convertible debt issuance, which changes the accounting for equity share lending arrangements on an entity's own shares when executed in contemplation of a convertible debt offering. This guidance requires the share lending arrangement to be

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

measured at fair value and recognized as an issuance cost. These issuance costs should then be amortized as interest expense over the life of the financing arrangement. Shares loaned under these arrangements should be excluded from computation of earnings per share. This guidance is effective for fiscal years beginning after December 15, 2009 and requires retrospective application for all arrangements outstanding as of the beginning of the fiscal year. The Company does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

In October 2009, the FASB issued authoritative guidance on multiple-deliverable revenue arrangements, ASC 605-25. This guidance amends the existing criteria for separating consideration received in multiple-deliverable arrangements and requires that arrangement consideration be allocated at the inception of the arrangement to all deliverables based on their relative selling price. The guidance establishes a hierarchy for determining the selling price of a deliverable which is based on vendor-specific objective evidence, third-party evidence, or management estimates. Expanded disclosures related to multiple-deliverable revenue arrangements are also required. This guidance is effective for the Company beginning fiscal year 2011. Upon adoption, the guidance may be applied either prospectively from the beginning of the fiscal year for new or materially modified arrangements, or it may be applied retrospectively. The Company does not expect the adoption of this guidance to have a material impact on its consolidated financial statements.

NOTE 2. BASIS OF CONSOLIDATION

The consolidated financial statements for the years ended September 30, 2010 and 2009 respectively, include the accounts of Arrowhead and its Subsidiaries, Calando, Unidym, Tego and Agonn. All significant intercompany accounts and transactions are eliminated in consolidation and minority interests were accounted for in the consolidated statements of operations and the balance sheets.

NOTE 3. INVESTMENT IN SUBSIDIARIES

Unidym, Inc.

Unidym, Inc. was founded by Arrowhead in 2005. Through the license of intellectual property and the acquisition of three development stage nanotechnology companies in 2006, 2007 and 2008, Unidym acquired the rights to key patents for the manufacture and application of carbon nanotubes, and is developing products with applications for the display industry. The consolidated financial statements include the results of the merged companies.

Prior to fiscal 2009, Arrowhead invested \$8.3 million in Unidym and provided Arrowhead stock with an aggregate value of \$5.4 million to facilitate Unidym acquisitions. In fiscal 2009, Unidym raised a total of \$4.7 million through the sale of Series C-1 Preferred Stock, of which \$2.7 million was invested by Arrowhead.

In fiscal 2008 and fiscal 2009, Arrowhead increased its ownership interest in Unidym through a series of stock exchanges with minority holders of Unidym. In April 2008, Arrowhead acquired 550,000 shares of Unidym common stock from a director and minority holder of Unidym in exchange for \$350,000 in cash and restricted Arrowhead Common Stock valued at \$200,000. In fiscal 2009, Arrowhead acquired 4.3 million shares of Unidym preferred stock in exchange for 4.3 million shares of Arrowhead Common Stock.

In September 2009, Arrowhead invested \$642,000 in exchange for 2,140,000 shares of Unidym Series D Preferred Stock and a warrant to purchase 3,146,208 shares of Unidym common stock at an exercise price of \$0.25 per share with an expiration date three years from the date of issuance. As a condition to this investment, each share of Series C-1 Preferred Stock was converted to six shares of Unidym Series D Preferred Stock. A minority shareholder of Unidym invested \$300,000 for 1,000,000 shares of Unidym Series D Preferred Stock and 1,000,000 warrants with similar terms.

In October and November 2009, Arrowhead issued 153,176 shares of Common Stock with an estimated fair market value of \$47,485 in exchange for an equal number of shares of Series C Preferred Stock of Unidym, with several minority stockholders of Unidym. In June 2010, Arrowhead received 4,785,077 shares of Series D Preferred Stock of Unidym in exchange for the cancellation of \$1,435,523 in accumulated operational loans by Arrowhead to Unidym.

As of September 30, 2010, Arrowhead owned 79% of the outstanding stock of Unidym and 64% on a fully diluted basis.

Calando Pharmaceuticals, Inc. (formerly known as Insert Therapeutics, Inc.)

On April 17, 2008, Calando merged with and into Insert, with Insert as the surviving company. Prior to the merger, Arrowhead invested an aggregate of \$23.2 million in Calando through equity and debt financings. As a condition of the merger, the Preferred Stock of each of Calando and Insert was converted into common stock and the loans were converted to equity. As a result of the merger, shares of Insert common stock were issued to the stockholders of the former Calando, and Insert changed its name to Calando Pharmaceuticals, Inc.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

On November 26, 2008, Calando entered into Unsecured Convertible Promissory Note Agreements ("Notes") for \$2.5 million with accredited investors and Arrowhead, which invested \$200,000 in the Notes offering. Arrowhead subsequently invested an additional \$600,000 in the same offering. Subsequently, most of the Notes were converted to equity as described below. At September 30, 2010, one Note for \$500,000 remained outstanding. The Notes had a 10% interest rate and matured on November 26, 2010. The Notes are convertible into Calando common stock and can be redeemed for two times their face value plus interest in the event of a sale of Calando. To facilitate this investment in Calando, Arrowhead subordinated a series of 6% simple interest loans and advances totaling approximately \$5.3 million of principal plus interest.

Effective June 23, 2009, to facilitate licensing transactions with a third party, holders (including Arrowhead) of an aggregate of \$2.9 million of the Notes, including accrued but unpaid interest, converted the principal and accrued interest into newly authorized Calando Series A Preferred Stock. The non-voting Series A Preferred Stock has a liquidation preference of 2.5 times the Series A Original Issue Price of \$1,000 per share and is convertible into common stock at a conversion price of \$0.576647 per share. Arrowhead converted all of its Notes representing a principal balance of \$800,000, plus accrued but unpaid interest, into 829 shares of Series A Preferred Stock. One third-party Note for \$500,000 plus interest remains outstanding.

As of September 30, 2010, Arrowhead had a series of 6% simple-interest working capital loans and advances outstanding to Calando totaling \$7,929,326, inclusive of accrued interest of \$615,139, which are payable upon demand.

In fiscal 2010, Arrowhead issued 1,220,000 shares of its Common Stock in exchange for 3,050,000 shares of Calando common stock, with several minority stockholders of Calando. In conjunction with this exchange, Arrowhead also issued 240,000 warrants to purchase Arrowhead Common Stock in exchange for 600,000 warrants to purchase Calando common stock.

As of September 30, 2010, Arrowhead owned 70% of the outstanding shares of Calando and 64% on a fully diluted basis.

Nanotope, Inc.

Nanotope is developing advanced nanomaterials for the treatment of spinal cord injuries, cartilage regeneration and wound healing. In April 2008, Arrowhead acquired a 5.8% ownership interest in Nanotope. In July and September 2008, Arrowhead acquired 1,801,802 shares of Series B Preferred Stock of Nanotope for two payments of \$1 million each, increasing Arrowhead's ownership interest in Nanotope to approximately 23%. Since inception, Nanotope's revenue has been negligible. Operating expenses for the twelve months ended September 30, 2010 were approximately \$975,000. Nanotope's net loss for the twelve months ended September 30, 2010 was \$955,000. Arrowhead accounts for its investment in Nanotope using the equity method of accounting. As of September 30, 2010, Nanotope had indebtedness to Arrowhead in the amount of \$467,000, included in other receivables, which is expected to be repaid or converted to equity.

Summarized financial information for Nanotope, Inc. is as follows:

	September 30, 2010	September 30, 2009
Current assets	\$ 16,000	\$ 344,000
Non-current assets	130,000	176,000
Liabilities	585,000	4,000
Equity	(439,000)	516,000
	For the year ended September 30, 2010	For the year ended September 30, 2009
Revenue	\$ 9,000	\$ —
Operating expenses	975,000	1,038,000
Net Loss	\$ (955,000)	\$ (1,030,000)
	For the year ended September 30, 2010	For the year ended September 30, 2009
Cash flows used in operating activities	\$ (329,000)	\$ (948,000)
Cash flows used in investing activities	(7,000)	(7,000)
Cash flows provided by financing activities	-	_

Leonardo Biosystems, Inc.

Leonardo is developing a drug-delivery platform technology based on novel methods of designing spheroid porous silicon microparticles that selectively accumulate in tumor vasculature. In April 2008, Arrowhead acquired a 6.13% ownership interest in Leonardo. Arrowhead accounts for its investment in Leonardo using the cost method of accounting. As of September 30, 2010, Leonardo had indebtedness to Arrowhead in the amount of \$325,000, included in other receivables, which is expected to be repaid or converted to equity. As of September 30, 2010, Arrowhead's ownership interest in Leonardo was 5%.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

Agonn Systems, Inc.

Arrowhead founded Agonn in May 2008 to explore, develop and commercialize nanotechnology-based energy storage devices for electric vehicles and other large format applications. Funding for Agonn has ceased, and development efforts have been curtailed.

NOTE 4. DISCONTINUED OPERATIONS—TEGO BIOSCIENCES CORPORATION

On April 20, 2007, Tego, a wholly-owned subsidiary of Arrowhead, acquired for \$1,000 the assets of C Sixty, Inc., a Texas-based company developing protective products based on the anti-oxidant properties of fullerenes. On July 3, 2007, Arrowhead capitalized Tego with a purchase of 5,000,000 shares of Tego Series A1 Preferred Stock for \$100,000. On October 25, 2007, Arrowhead purchased 15,000,000 shares of Tego Series A-2 Preferred Stock for \$2.4 million. In line with Tego's revised strategy to focus on the out-license of its technology and to reduce its internal development activities, on November 21, 2008, Tego repurchased from Arrowhead 5,000,000 shares of Tego Series A-1 Preferred Stock for \$1.7 million. As of September 30, 2010, the Company had incurred approximately \$1,017,000 of expenses related to Tego since its inception.

On December 23, 2009, Tego completed the sale of all of its non-cash intellectual property assets ("Tego IP") to Luna Innovations, Inc. ("Luna") under the terms of the Tego-Luna Asset Purchase Agreement dated November 13, 2009 ("APA"). The Tego IP includes a portfolio of Tego-owned foreign and domestic patents and patent applications. The Tego IP also includes patent licenses from Siemens AG and Washington University, St. Louis. Under the APA, Luna agreed to assume Tego's role as licensor under a license Tego granted under the Tego IP to The Bronx Project, Inc. ("TBP") to develop carboxyfullerenes in the field of neuronal injury (the "TBP License"). Luna also assumed Tego's role as licensor under the exclusive license Tego granted to Arrowhead's affiliate Unidym, under the Tego IP in the field of industrial non-pharmaceutical fullerenes.

Luna paid to Tego an upfront purchase price of \$350,000 and reimbursements of patent and license expenses of \$80,000. Further, under the terms of the APA, Luna will pay Tego 10% of any revenues it receives from its licensing or resale of the Tego IP. Tego shall also receive from Luna 50% of any net proceeds Luna receives from the TBP License. Tego shall receive royalties from Luna for any sales of fullerene products covered by the Tego IP, as well as clinical development milestones totaling \$4.25 million for each fullerene product it develops that is covered by the Tego IP.

Due to the sale of substantially all of Tego's assets, the operations of Tego ceased and the gain on the sale and the results of historical operations are recorded as discontinued operation in the Company's Statements of Operations. Additionally, the cash flows from Tego are reflected separately as cash flows from discontinued operations. Potential future cash flows associated with the Luna APA, as discussed above, will be reflected as a part of cash flows from discontinued operations in the Company's Consolidated Statements of Cash Flows.

NOTE 5. NOTES PAYABLE

On November 26, 2008, Calando entered into Unsecured Convertible Promissory Note Agreements ("Notes") for \$2.5 million with accredited investors and Arrowhead, which invested \$200,000 in the Notes offering. Arrowhead subsequently invested an additional \$600,000 in the same offering. The Notes had a 10% interest rate and matured on November 26, 2010. Unpaid principal of the Notes and accrued but unpaid interest thereon is convertible into common stock of Calando at a conversion price of \$0.576647 per share (subject to adjustment) at any time in the sole discretion of the holder. In the event Calando achieves a liquidation event as defined in the Notes, each note holder has the option to exchange the Notes for two times the then outstanding principal amount owed under the Notes plus accrued and unpaid interest thereon, or convert the outstanding principal and accrued and unpaid interest thereon into Calando common stock at the conversion price.

Except for one Note in the principal amount of \$500,000, all Notes and accrued interest were converted into a total of 2,950 shares of Calando Series A Preferred Stock on June 23, 2009.

NOTE 6. STOCKHOLDERS' EQUITY

At September 30, 2010, the Company had a total of 150,000,000 shares of capital stock authorized for issuance, consisting of 145,000,000 shares of Common Stock, par value \$0.001, and 5,000,000 shares of Preferred Stock, par value \$0.001.

At September 30, 2010, 71,720,137 shares of Common Stock were outstanding. At September 30, 2010, 1,532,000 shares and 9,731,435 shares were reserved for issuance upon exercise of options granted under Arrowhead's 2000 Stock Option Plan and 2004 Equity Incentive Plan, respectively.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

On July 17, 2009 and August 6, 2009, the Company sold an aggregate of 9,196,642 units in a private placement transaction with institutional and accredited investors. Each unit consisted of one share of Arrowhead Common Stock, at a price of \$0.30 per share, and a warrant to purchase an additional share of Common Stock exercisable at \$0.50 per share. The warrants became exercisable on January 18, 2010 and February 7, 2010, and remain exercisable until June 30, 2014. The market conditions required for redemption provided for in the warrants has been met and the warrants are eligible for redemption by the Company. Gross proceeds of the offering were approximately \$2.76 million.

On December 11, 2009, the Company sold an aggregate of 5,083,430 units in a private placement transaction with accredited investors. Each unit consisted of one share of Arrowhead Common Stock and a warrant to purchase an additional share of Common Stock exercisable at \$0.509 per share. The unit price was \$0.634, based upon the closing bid price on the Company's Common Stock on December 11, 2009, which was \$0.509, plus \$0.125 for the purchase of the warrant. The warrants became exercisable on June 12, 2010 and remain exercisable until December 11, 2014. The market conditions required for redemption provided for in the warrants has been met and the warrants are eligible for redemption by the Company. Gross proceeds of the offering were approximately \$3.2 million.

On June 17, 2010, the Company sold an aggregate of 6,592,989 units at a price of \$1.312 per unit in a registered offering to institutional and accredited investors. Each unit consisted of one share of Arrowhead Common Stock and a warrant to purchase 0.5 share of Common Stock exercisable at \$1.65 per share. The warrants contain an antidilution provision which can result in an adjustment to the exercise price under certain circumstances. Gross proceeds from the offering were \$8.65 million before deducting placement agent commission and other offering expenses of approximately \$800,000.

The following table summarizes information about warrants outstanding at September 30, 2010:

		Remaining
Exercise prices	Number of Warrants	Life in Years
\$5.04	1,235,994	0.3
\$7.06	948,969	6.6
\$2.00	3,863,999	2.9
\$0.50	11,716,892	4.2
\$0.51	4,610,244	4.2
\$1.65	3,296,497	5.2
Total warrants outstanding	25,672,595	

NOTE 7. LEASES

As of September 30, 2010, the Company leased the following facilities:

	Lab/Office Space	Monthly Rent	Lease Commencement	Lease Term
Arrowhead				
Pasadena, CA	7,388 sq ft	\$18,470	March 1, 2006	62 Months
Unidym				
Sunnyvale, CA	20,500 sq ft	\$26,650	October 1, 2008	60 Months

At September 30, 2010, the future minimum commitments remaining under leases are as follows:

	Facilities	Equipment
Twelve months ending September 30	Leases	Leases
2011	\$461,390	\$ 2,268
2012	\$344,400	\$ —
2013	\$356,700	\$ —
2014	\$ —	\$ —
2015 and thereafter	\$ —	\$ —

Facility and equipment rent expense for the years ended September 30, 2010 and 2009 was \$499,221 and \$1,317,696, respectively. From inception to date, rent expense has totaled \$4,795,051. During fiscal 2010, Unidym subleased a portion of the building that it occupies, and the Company received rental income, which was recorded as an offset to rental expense, in the amount of \$151,000 during the year ended September 30, 2010. Minimum future rental payments in the amount of \$201,000 are expected through 2011.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

NOTE 8. COMMITMENTS AND CONTINGENCIES—SUBSIDIARIES AND SPONSORED RESEARCH

Sponsored Research

In exchange for the exclusive right to license technology developed in sponsored laboratories, Arrowhead has worked with universities in areas such as stem cell research, carbon electronics and molecular diagnostics. By funding university research, Arrowhead has the opportunity to ascertain the technical success at low research cost and, if warranted, continue cost effective development at the university by leveraging the already existing resources available to scientists at universities, such as laboratories and equipment and a culture that encourages the exchange of ideas. If sponsored research results in technology that appears to have commercial applications, the Company can form a subsidiary to develop the technology. Should the technology prove to be too difficult or too expensive to commercialize, Arrowhead may terminate the license agreement and return the licensed intellectual property to the university.

Sponsored Research expense for the years ended September 30, 2010 and 2009 was \$33,428 and \$195,000. As of September 30, 2010, there was one active sponsored research agreement at Unidym.

Sponsored Research Agreement—Duke University

The terms of the sponsored research agreement between Unidym and Duke University ("Duke") are summarized in the following table:

				Amount Paid	Prepaid	d Amt
		Total		as of	as	of
		Estimated		Sept. 30,	Sept.	. 30,
Research Project	Period Covered	Project Cost	Annual Cost	2010	201	10
Electrical Conductivity of Carbon Nanotubes (Dr. Jie Liu)	Dec. 1, 2007 -					
	Nov. 30, 2010 (3 year)	\$ 431,641	\$ 100,000	\$ 341,882	\$	0

In fiscal 2009, the Duke sponsored research agreement was renegotiated resulting in the annual maximum cost decreasing from \$191,375 to \$100,000. The current contract expired on November 30, 2010, but is expected to be renewed.

NOTE 9. STOCK-BASED COMPENSATION

Arrowhead has two plans that provide for equity-based compensation. Under the 2000 Stock Option Plan, 1,532,000 shares of Arrowhead's Common Stock are reserved for issuance upon exercise of non-qualified stock options. No further grants can be made under the 2000 Stock Option Plan. The 2004 Equity Incentive Plan reserves 9,731,435 shares for the grant of stock options, stock appreciation rights, restricted stock awards and performance unit/share awards by the Board of Directors to employees, consultants and others. As of September 30, 2010, there were options granted and outstanding to purchase 1,532,000 and 6,591,338 shares of Common Stock under the 2000 Stock Option Plan and the 2004 Equity Incentive Plan, respectively. During the year ended September 30, 2010, 5,251,750 options were granted under the 2004 Equity Incentive Plan.

In connection with a private offering in fiscal 2009, directors, officers and employees of the Company agreed to forfeit options to purchase 4,005,000 shares of Common Stock with exercise prices ranging from \$2.52 to \$6.36. In consideration of the forfeiture of the option grants, other existing grants to purchase 450,000 shares were accelerated such that the awards became fully vested on the one year anniversary of the date of grant. The cancellation was effective July 17, 2009.

The following tables summarize information about stock options:

	Number of Options Outstanding	Weighted- Average Exercise Price Per Share	Weighted- Average Remaining Contractual Term	Aggregate Intrinsic Value
Balance At September 30, 2008	8,007,632	\$ 3.24		
Granted	460,000	0.85		
Cancelled	(5,566,044)	3.88		
Exercised				
Balance At September 30, 2009	2,901,588	1.73		
Granted	5,251,750	0.69		
Cancelled	(23,125)	1.11		
Exercised	(6,875)	1.11		
Balance At September 30, 2010	8,123,338	\$ 1.06	7.9 years	\$2,150,078
Exercisable At September, 30, 2010	4,296,633	\$ 1.47	8.0 years	\$ 831,656

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

Stock-based compensation expense for the years ended September 30, 2010 and 2009 was \$1,582,149 and \$2,676,170, respectively, and is included in Salary expense in the Company's consolidated statements of operations. There is no income tax benefit as the company is currently operating at a loss and an actual income tax benefit may not be realized. The result of the loss creates a timing difference, resulting in a deferred tax asset, which is fully reserved by a valuation allowance.

The fair value of the options granted by Arrowhead for the years ended September 30, 2010 and 2009 is estimated at \$2,939,928 and \$258,216, respectively. The aggregate fair value of options granted by Unidym and Calando for the years ended September 30, 2010 and 2009 is estimated at \$20,700 and \$448,715, respectively. The intrinsic value of the options exercised during fiscal 2009 and 2008 was \$4,000 and \$69,000, respectively.

As of September 30, 2010, the pre-tax compensation expense for all unvested stock options at Arrowhead in the amount of approximately \$2,492,145 will be recognized in our results of operations over a weighted average period of 2.6 years. As of September 30, 2010, the pre-tax compensation expense for all unvested stock options at Unidym and Calando in the amount of approximately \$518,876 will be recognized in our results of operations over a weighted average period of 2.2 and 1.5 years, respectively.

The fair value of each stock option award is estimated on the date of grant using the Black-Scholes option pricing model. The Black-Scholes option valuation model was developed for use in estimating the fair value of traded options, which do not have vesting restrictions and are fully transferable. The determination of the fair value of each stock option is affected by our stock price on the date of grant, as well as assumptions regarding a number of highly complex and subjective variables. Because the Company's employee stock options have characteristics significantly different from those of traded options, and because changes in the subjective input assumptions can materially affect the fair value estimate, in management's opinion, the existing models do not necessarily provide a reliable single measure of the fair value of its employee stock options. The assumptions used to value stock options are as follows:

	Year Ended Se	Year Ended September 30,		
	2010	2009		
Dividend yield	_	_		
Risk-free interest rate	2.00% to 3.42%	2.34% to 3.03%		
Volatility	100%	81% - 100%		
Expected life (in years)	5 to 6.25	5 to 6		
Weighted average grant date fair value per share of options granted	\$0.56	\$0.60		

The dividend yield is zero as the Company currently does not pay a dividend.

The risk-free interest rate is based on the seven-year Treasury bond.

Volatility is estimated based on volatility average of the Company's Common Stock price.

NOTE 10. FAIR VALUE MEASUREMENTS & DERIVATIVE INSTRUMENTS

The Company measures its financial assets and liabilities at fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (i.e., exit price) in an orderly transaction between market participants at the measurement date. Additionally, the Company is required to provide disclosure and categorize assets and liabilities measured at fair value into one of three different levels depending on the assumptions (i.e., inputs) used in the valuation. Level 1 provides the most reliable measure of fair value while Level 3 generally requires significant management judgment. Financial assets and liabilities are classified in their entirety based on the lowest level of input significant to the fair value measurement. The fair value hierarchy is defined as follows:

Level 1—Valuations are based on unadjusted quoted prices in active markets for identical assets or liabilities.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

Level 2—Valuations are based on quoted prices for similar assets or liabilities in active markets, or quoted prices in markets that are not active for which significant inputs are observable, either directly or indirectly.

Level 3—Valuations are based on prices or valuation techniques that require inputs that are both unobservable and significant to the overall fair value measurement. Inputs reflect management's best estimate of what market participants would use in valuing the asset or liability at the measurement date.

The following table summarizes fair value measurements at September 30, 2010 for assets and liabilities measured at fair value on a recurring basis:

	Level I	Level II	Level III	Total
Cash and cash equivalents	\$6,847,162	\$ —	\$ —	\$6,847,162
Derivative liabilities	\$ —	\$ —	\$2,408,522	\$2,408,522

As part of the equity financing on June 17, 2010, as described in Note 6, Arrowhead issued 3,296,497 warrants (the "Warrants") that contain antidilution protection. Under the provisions of the Warrants, if, during the term of the Warrants, the Company issues Common Stock at a price lower than the exercise price of the Warrants, the exercise price of the Warrants would be reduced to the amount equal to the issuance price of the Common Stock. Because the Warrants have this feature, the Warrants are subject to derivative accounting as prescribed under ASC 815. Accordingly, the fair value of the Warrants on the date of issuance was estimated using an option pricing model and recorded on the Company's consolidated balance sheet as a derivative liability. The fair value of the Warrants is estimated at the end of each reporting period and the change in the fair value of the Warrants is recorded as a nonoperating gain or loss in the Company's consolidated statement of operations. During the period from the issuance of the Warrants on June 17, 2010 through September 30, 2010, the Company recorded a gain from the change in fair value of the derivative liability of \$1,761,384. The assumptions used in valuing the derivative liability as of September 30, 2010 were as follows:

Risk free interest rate	1%
Expected life	5.2 Years
Dividend yield	none
Volatility	100%

During 2009, Arrowhead's subsidiary, Unidym, issued Series D Preferred Stock. The rights of the Preferred Stock necessitate the presentation of the fair value of the conversion feature as a liability as prescribed under ASC 815. These rights include those that protect the holders from decline in Unidym's stock price, which is considered outside the control of the Company. The derivative liability is marked-to-market each reporting period and changes in fair value are recorded as a non-operating gain or loss in the statement of operations, until they are completely settled. The fair value of the conversion feature is determined each reporting period using an option pricing model, and is affected by changes in inputs to that model including our stock price, expected stock price volatility, interest rates and expected term. The assumptions used in valuing the derivative liability at September 30, 2010 were as follows:

Risk free interest rate	1%
Expected life	3 Years
Dividend yield	none
Volatility	30%

The following is a reconciliation of the derivative liability for the nine months ended September 30, 2010:

Value at October 1, 2009	\$	0
Issuance of instruments	4,16	9,907
Decrease in value	(1,76	1,385)
Net settlements		
Value at September 30, 2010	\$ 2,40	8,522

The carrying amounts of the Company's other financial instruments, which include accounts receivable and accounts payable, approximate their respective fair values due to the relatively short-term nature of these instruments.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

NOTE 11. MEZZANINE FINANCING

Unidym sold 1,111,111 shares of Series C-1 Preferred Stock for cash proceeds of \$2 million in a private financing transaction with TEL Ventures ("TEL") in November 2008. In connection with the investment, TEL was granted certain contingent rights if Unidym failed to meet a cash flow requirement of \$7 million and enter into a joint development agreement with TEL by June 30, 2009. If the contingencies were not satisfied, Unidym was obligated to repurchase the Series C-1 Stock for an aggregate purchase price of \$2,000,000 at TEL's option. Unidym's contingent buy back obligations were secured by a separate security agreement between Unidym and TEL.

On June 25, 2009 the Company acquired 833,333 of TEL's Series C-1 shares in exchange for restricted Common Stock of the Company. This transaction permanently eliminated \$1,500,000 of the potential \$2,000,000 put option liability. With the elimination of the put option right, \$1.5 million was recorded as a reclassification of mezzanine debt to additional paid in capital on the consolidated balance sheet as of June 30, 2009, pursuant to Regulation S-X Rule 5-02.

Also on June 25, 2009, Arrowhead, Unidym and TEL entered into an IP Transfer and Waiver Agreement whereby TEL's remaining put rights totaling \$500,000 were postponed and modified and the cash flow requirement was reduced from \$7 million to \$1.5 million. On July 31, 2009, Unidym met the reduced cash flow requirement and the remaining buy back obligation of \$500,000 was permanently waived. The remaining \$500,000 was reclassified from debt to equity.

NOTE 12. INCOME TAXES

The Company utilizes the guidance issued by the FASB for accounting for income taxes which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements or tax returns.

Under this method, deferred income taxes are recognized for the tax consequences in future years of differences between the tax bases of assets and liabilities and their financial reporting amounts at each year-end based on enacted tax laws and statutory tax rates applicable to the periods in which the differences are expected to affect taxable income. Valuation allowances are established, when necessary, to reduce deferred tax assets to the amount expected to be realized. The provision for income taxes represents the tax payable for the period and the change during the period in deferred tax assets and liabilities.

For the years ended September 30, 2010 and 2009, the Company had consolidated net losses of \$6,857,038 and \$19,308,452, respectively. The losses result in a deferred income tax benefit of approximately \$7,650,000 for fiscal 2009 and \$10,700,000 for fiscal 2008, offset by an increase in the valuation allowance for the same amount for Arrowhead. Since the Company is a development stage company, management has chosen to take a 100% valuation allowance against the tax benefit until such time as management believes that its projections of future profits as well as expected future tax rates make the realization of these deferred tax assets more-likely-than-not. Significant judgment is required in the evaluation of deferred tax benefits and differences in future results from our estimates could result in material differences in the realization of these assets.

The Federal Net Operating Losses ("NOL") for Arrowhead and entities consolidated for tax purposes for the past 5 fiscal years are \$3,748,704 for fiscal 2009, \$5,597,836 for fiscal 2008, \$4,296,115 for fiscal 2007, \$7,487,109 for fiscal 2006 and \$2,895,883 for fiscal 2005. The California NOL's for the last 5 fiscal years are \$14,017,613 for fiscal 2009, \$8,613,901 for fiscal 2008, \$2,096,978 for fiscal 2007, \$195,446 for fiscal 2006 and \$77,216 for fiscal 2005.

Management estimates the Federal NOL for Arrowhead and entities consolidated for tax purposes, and the California NOL, for fiscal 2010, will be approximately \$4.0 million to \$5.0 million.

The Company has adopted guidance issued by the FASB that clarifies the accounting for uncertainty in income taxes recognized in an enterprise's financial statements and prescribes a recognition threshold of more likely than not and a measurement process for financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. In making this assessment, a company must determine whether it is more likely than not that a tax position will be sustained upon examination, based solely on the technical merits of the position and must assume that the tax position will be examined by taxing authorities. Our policy is to include interest and penalties related to unrecognized tax benefits in income tax expense. Interest and penalties totaled \$0 for the years ended September 30, 2010 and 2009, respectively, and \$0 for the period from May 7, 2003 (date of inception) through September 30, 2010. The Company files income tax returns with the Internal Revenue Service ("IRS"), the state of California and certain other taxing jurisdictions. For jurisdictions in which tax filings are prepared, the Company is no longer subject to income tax examinations by state tax authorities for years through fiscal 2005, and by the IRS for years through fiscal 2006. Our review of prior year tax positions using the criteria and provisions presented by the FASB did not result in a material impact on the Company's financial position or results of operations.

Arrowhead Research Corporation (A Development Stage Company)

Notes to Consolidated Financial Statements September 30, 2010

NOTE 13. RELATED PARTY TRANSACTIONS

Dr. Anzalone owns 1,395,900 shares of Nanotope, Inc. common stock or approximately 14.2% of Nanotope's outstanding voting securities. Dr. Anzalone does not hold options, warrants or any other rights to acquire securities of Nanotope. Dr. Anzalone has the right to appoint a representative to the board of directors of Nanotope. Dr. Anzalone currently serves on the Nanotope board in a seat reserved for Nanotope's CEO, and another individual holds the seat designated by Dr. Anzalone. Dr. Anzalone has served as President and Chief Executive Officer of Nanotope since its formation and continues to serve in these capacities. Dr. Anzalone has not received any compensation for his work on behalf of Nanotope since joining the Company on December 1, 2007. Dr. Anzalone has also waived his right to any unpaid compensation accrued for work done on behalf of Nanotope before he joined the Company.

Dr. Anzalone did not participate on behalf of the Company in the negotiations of the terms of the Nanotope Series B Preferred Stock issued to the Company and did not negotiate on behalf of Nanotope after becoming the Chief Executive Officer and President of the Company. Dr. Anzalone did respond to questions asked of him by the Company's Board of Directors and management regarding Nanotope's business plan, operations and the terms of the Series B Stock Purchase Agreement and ancillary agreements.

During fiscal 2009, Calando raised \$2.5 million through the sale of senior unsecured convertible promissory notes ("New Notes"), to accredited investors, plus \$800,000 from Arrowhead. Dr. Anzalone, Arrowhead's President and CEO, personally participated in the offering by buying \$100,000 of the New Notes.

As part of the private placement on December 11, 2009 (see Note 6. Stockholder's Equity), Dr. Anzalone, Arrowhead's President and CEO, personally invested \$100,000.

NOTE 14. EMPLOYEE BENEFIT PLANS

In January 2005, the Company began sponsoring a defined contribution 401(k) retirement savings plan covering substantially all of its employees. The Plan was administered under the "safe harbor" provision of ERISA. Under the terms of the plan, an eligible employee may elect to contribute a portion of their salary on a pre-tax basis, subject to federal statutory limitations. The plan allowed for a discretionary match in an amount up to 100% of each participant's first 3% of compensation contributed plus 50% of each participant's next 2% of compensation contributed.

For the years ended September 30, 2010 and 2009, we recorded expenses under these plans of approximately \$14,000 and \$95,000, respectively and \$651,000 since inception of the Company.

In addition to the employee benefit plans described above, the Company participates in certain customary employee benefits plans, including those which provide health and life insurance benefits to employees.

NOTE 15. SUBSEQUENT EVENTS

On December 7, 2010, Unidym entered into three agreements with Samsung Electronics ("Samsung") relating to Unidym's carbon nanotube technologies and intellectual property. Under these agreements, Unidym will receive gross proceeds of \$4,500,000, less withholding taxes and university sublicense fees and other expenses.

On December 14, 2010, Arrowhead entered into an agreement with the Board of Regents of the University of Texas whereby it obtained an exclusive world-wide license on certain anti-obesity technology developed by Drs. Wadih Arap and Renata Pasqualini at the MD Anderson Cancer Center. The agreement requires a one-time fee of \$2 million, and annual maintenance fees, initially in the amount of \$50,000, rising to a maximum annual fee of \$100,000 after five years. Milestone payments and royalties may also be due under certain situations.

List of Subsidiaries

Calando Pharmaceuticals, Inc. Unidym, Inc. Tego Biosciences Corporation Agonn Systems, Inc. Ablaris Therapeutics, Inc.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Annual Report on Form 10-K of Arrowhead Research Corporation for the year ended September 30, 2010 of our report dated December 17, 2010 included in its Registration Statements on Forms S-3 (Nos. 333-148218, 333-144109, 333-137329, 333-132310, 333-124065, and 333-113065) and Forms S-8 (Nos. 333-170252, 333-136225, 333-124066, and 333-120072) relating to the consolidated financial statements of Arrowhead Research Corporation and Subsidiaries for the year ended September 30, 2010.

Rose, Snyder & Jacobs A Corporation of Certified Public Accountants

Encino, California

December 17, 2010

CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO RULE 13a-14(a) OR RULE 15d-14(a) OF THE SECURITIES EXCHANGE ACT OF 1934

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

Date: December 22, 2010

/s/ CHRISTOPHER ANZALONE

Christopher Anzalone
Chief Executive Officer

CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO RULE 13a-14(a) OR RULE 15d-14(a) OF THE SECURITIES EXCHANGE ACT OF 1934

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

Date: December 22, 2010

/s/ Kenneth A. Myszkowski

Kenneth A. Myszkowski,

Chief Financial Officer

CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO RULE 13a-14(b) OR RULE 15d-14(b) OF THE SECURITIES EXCHANGE ACT OF 1934 AND 18 U.S.C. SECTION 1350

I, Christopher Anzalone, Chief Executive Officer of Arrowhead Research Corporation (the "Company"), certify, pursuant to Rule 13(a)-14(b) or Rule 15(d)-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350, that (i) the Annual Report on Form 10-K of the Company for the year ended September 30, 2010, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and (ii) the information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of the Company.

Date: December 22, 2010

/s/ Christopher Anzalone	
Christopher Anzalone	
Chief Executive Officer	

A signed original of these written statements required by 18 U.S.C. Section 1350 has been provided to Arrowhead Research Corporation and will be retained by Arrowhead Research Corporation and furnished to the Securities and Exchange Commission or its staff upon request.

CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO RULE 13a-14(b) OR RULE 15d-14(b) OF THE SECURITIES EXCHANGE ACT OF 1934 AND 18 U.S.C. SECTION 1350

I, Kenneth A. Myszkowski, Chief Financial Officer of Arrowhead Research Corporation (the "Company"), certify, pursuant to Rule 13(a)-14(b) or Rule 15(d)-14(b) of the Securities Exchange Act of 1934 and 18 U.S.C. Section 1350, that (i) the Annual Report on Form 10-K of the Company for the year ended September 30, 2010, fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and (ii) the information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of the Company.

Date: December 2	2. 2010
------------------	---------

 /s/ Kenneth A. Myszkowski
Kenneth A. Myszkowski
Chief Financial Officer

A signed original of these written statements required by 18 U.S.C. Section 1350 has been provided to Arrowhead Research Corporation and will be retained by Arrowhead Research Corporation and furnished to the Securities and Exchange Commission or its staff upon request.