

ARQULE INC
Form DEF 14A
April 29, 2011

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

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of
the Securities Exchange Act of 1934 (Amendment No.)

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material under §240.14a-12

ArQule, Inc.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
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-

Dear Stockholders:

Progress during 2010 was highlighted by promising results in our Phase 2, randomized, double-blind trial with tivantinib (ARQ 197) in non-small cell lung cancer (NSCLC). Tivantinib is a first-in-class, small molecule inhibitor of the c-Met receptor tyrosine kinase, one of the most compelling molecular targets in cancer research today. We first presented data from this trial in a plenary session at the 2010 American Society of Clinical Oncology (ASCO) Annual Meeting. These data provided strong signals of clinical benefit among NSCLC patients with non-squamous cell histology, as measured by improvements in progression-free survival (PFS) and overall survival (OS).

Later in the year, following further review of the Phase 2 data, discussions with the U.S. Food and Drug Administration (FDA) and input from key opinion leaders worldwide, we and our partner, Daiichi Sankyo Co., Ltd., reached agreement with the FDA for a Special Protocol Assessment (SPA) for a Phase 3 trial in this patient population. The SPA process is a procedure by which the FDA provides official evaluation and written guidance on the design and size of proposed protocols that are intended to form the basis for a New Drug Application.

We enrolled the first patient in the Phase 3 trial in January 2011. This trial, named MARQUEE (*Met* Inhibitor *ARQ* 197 plus *Erlotinib* vs. *Erlotinib* plus placebo in NSCLC), is a randomized, double-blinded, controlled study of previously treated patients with locally advanced or metastatic, non-squamous NSCLC who will receive tivantinib plus erlotinib or placebo plus erlotinib. The primary objective of the MARQUEE trial is to evaluate OS in the intent-to-treat population. Daiichi Sankyo is the sponsor for this trial, which will include approximately 1,000 patients at clinical sites in the U.S., Canada, eastern and western Europe, Australia and Latin America.

Although this trial is clearly the highlight of the tivantinib development program, we have cast a broad net that includes a number of additional clinical trials in other tumor types. Principal among these are liver cancer and colorectal cancer. We expect to read data from these trials later in 2011 and in 2012, and we may consider Phase 3 clinical development plans following a thorough analysis of these data and an evaluation of the evolving therapeutic landscape. Similarly, we will be examining the results of ongoing Phase 1 trials of tivantinib in combinations with sorafenib and gemcitabine to identify signals that may lead to further testing in other tumors.

Our other pipeline products are directed toward additional targets in oncology, including the RAF kinases, the Eg5 kinesin motor protein and fibroblast growth factor receptor. We are in Phase 1 clinical testing with inhibitors of the first two of these targets, and we are working toward the objective of filing an Investigational New Drug application for an inhibitor of the third target late this year or early next. Our strategy with these three proprietary product candidates is to generate sufficient clinical data by the end of next year to inform our decision whether to pursue further development with one or more of them either independently or on a partnered basis.

We are continuing to advance our AKIP (ArQule Kinase Inhibitor Platform) discovery engine, which has the potential to target the inactive as well as other conformations of kinases that play pivotal roles in cancer and other diseases. Relative to our discovery activities, during 2010 we expanded our AKIP collaboration with Daiichi Sankyo by establishing a third therapeutic target, with an option for a fourth, in the field of oncology, and we extended the term of the collaboration by two years.

We ended 2010 with \$83 million in cash and marketable securities. In January 2011, the Company completed a common stock offering, which combined with the full exercise of an over-allotment option, resulted in net proceeds of approximately \$46.8 million. In February 2011, the Company received a

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\$25 million development milestone payment from Daiichi Sankyo triggered by the dosing of the first patient in the MARQUEE trial. In light of these cash inflows, cash, cash equivalents and marketable securities on hand at December 31, 2010, and certain milestone assumptions related to our collaboration agreements, we currently expect to end 2011 with between \$85 and \$90 million in cash and marketable securities.

We are focused more than ever on our primary mission to serve cancer patients. The American Cancer Society has estimated that more than 220,000 cases of lung cancer were diagnosed in 2010 in the U.S. Lung cancer, of which non-small cell lung cancer accounts for 80 percent of all cases, causes more deaths than colon, breast, and prostate cancers combined. Certainly the need among these patients for improved therapies remains unmet, and we begin our Phase 3 trial with these patients uppermost in our minds.

Paolo Pucci
Chief Executive Officer

ARQULE, INC.

NOTICE OF ANNUAL MEETING OF STOCKHOLDERS

TO BE HELD JUNE 1, 2011

To Our Stockholders,

Our 2011 Annual Meeting of Stockholders will be held at the offices of ArQule, Inc. at 19 Presidential Way, Woburn, Massachusetts 01801-5140 at 10:00 a.m. Eastern Daylight Savings Time on Thursday, June 1, 2011 for the following purposes:

1. To elect Ronald M. Lindsay, William G. Messenger and Patrick J. Zenner as directors to hold office for a term of three years and until their respective successors are elected and qualified;
2. To approve amendments to our Amended and Restated 1994 Equity Incentive Plan to increase the number of shares of common stock available for awards granted under such plan by 3,000,000 from 12,500,000 to 15,500,000 shares of common stock and to incorporate other changes described in our proxy statement;
3. To approve an amendment to our Amended and Restated 1996 Employee Stock Purchase Plan to increase the number of shares of common stock available for purchase by participants in such plan by 400,000 from 2,000,000 to 2,400,000 shares of common stock;
4. To approve an amendment to our Amended and Restated 1996 Director Stock Option Plan to increase the number of shares of common stock available for awards under such plan by 200,000 from 750,500 to 950,500 shares of common stock;
5. To ratify the selection of PricewaterhouseCoopers LLP, an independent registered public accounting firm, to audit our financial statements for the year ending December 31, 2011.
6. To approve, by non-binding vote, the compensation of our named executive officers;
7. To recommend, by non-binding vote, the frequency of votes approving executive compensation;
8. To transact any other business that may properly come before the meeting or any adjournment of the meeting.

Only stockholders of record at the close of business on April 15, 2011 will be entitled to vote at the meeting or any adjournment. A list of these stockholders will be available during ordinary business hours at the offices of ArQule, Inc. for a period beginning ten days before the meeting. Any stockholder may examine the list for any purpose germane to the meeting.

We look forward to seeing you at the meeting.

IT IS IMPORTANT THAT YOUR SHARES ARE REPRESENTED AT THE MEETING. THEREFORE, WHETHER OR NOT YOU PLAN TO ATTEND THE MEETING, PLEASE COMPLETE YOUR PROXY AND RETURN IT IN THE ENCLOSED ENVELOPE, WHICH REQUIRES NO POSTAGE IF MAILED IN THE UNITED STATES. YOU MAY ALSO SUBMIT YOUR PROXY ELECTRONICALLY OR BY TELEPHONE, ACCORDING TO THE INSTRUCTIONS ON THE ENCLOSED PROXY CARD. IF YOU ATTEND THE MEETING AND WISH TO VOTE IN PERSON, YOUR PROXY WILL NOT BE USED. YOU MAY REVOKE YOUR PROXY AT ANY TIME BEFORE IT IS VOTED.

By order of our Board of Directors,

Peter S. Lawrence
President and Chief Operating Officer

Woburn, Massachusetts

Dated: April 29, 2011

ARQULE, INC.

19 Presidential Way
Woburn, Massachusetts 01801-5140
Telephone: (781) 994-0300

Proxy Statement

General Information

With the enclosed proxy card, our Board of Directors (the "Board") is soliciting your proxy for use at our 2011 Annual Meeting of Stockholders to be held at the offices of ArQule, Inc. at 19 Presidential Way, Woburn, Massachusetts 01801-5140 at 10:00 a.m. Eastern Daylight Savings Time on Wednesday, June 1, 2011 and any adjournment or postponement of the meeting. This proxy statement and accompanying proxy card are first being sent or given to stockholders on or about May 2, 2011.

The principal business expected to be transacted at the meeting, as more fully described below, will be the election of directors; approval of amendments to our Amended and Restated 1994 Equity Incentive Plan, our Amended and Restated 1996 Employee Stock Purchase Plan and our Amended and Restated 1996 Director Stock Option Plan; ratification of the selection of PricewaterhouseCoopers LLP to audit our financial statements for the year ending December 31, 2011; and approvals, by non-binding votes, of our named executive officers' compensation, and the frequency of votes by stockholders approving executive compensation.

Stockholders may revoke the authority granted by an executed proxy at any time before its exercise by voting in person at the meeting or by filing with our Secretary a written revocation or a duly executed proxy bearing a later date.

We will bear the cost of solicitation of proxies, including charges and expenses of brokerage firms and others for forwarding solicitation material by mail to beneficial owners of stock. We have retained the Proxy Advisory Group, LLC to aid in the solicitation of proxies by mail, telephone, facsimile, e-mail and personal solicitation. For these services we will pay The Proxy Advisory Group, LLC a fee of \$23,000 plus reimbursement of certain specified out-of-pocket expenses. In addition, our officers, employees and other representatives may solicit proxies in person or by telephone.

Only stockholders of record at the close of business on April 15, 2011 will be entitled to vote at the meeting. On that date, we had outstanding 53,115,658 shares of common stock, \$0.01 par value ("Common Stock"), each of which is entitled to one vote. The presence at the meeting, in person or by proxy, of a majority of our outstanding shares of Common Stock entitled to vote at the Annual Meeting shall constitute a quorum for the transaction of business.

You may submit your proxy in writing, electronically, or by telephone according to the instructions on the enclosed proxy card. If you submit a proxy without directions as to votes on the matters to be considered at the Annual Meeting, the proxy will be voted "FOR" the election of the nominees listed below and "FOR" proposals 2, 3, 4, 5 and 6 and for "EVERY YEAR" on Proposal 7. The Company is not aware of any matter that will be brought before the annual meeting (other than procedural matters) that is not referred to herein. Abstentions and broker non-votes will be considered present for purposes of determining the presence of a quorum. Broker non-votes are proxies submitted by brokers that do not indicate a vote for one or more proposals because the brokers have not received instructions from the beneficial owners on how to vote on these proposals and do not have discretionary voting authority.

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting of Stockholders to be Held June 1, 2011:

This Proxy Statement and the ArQule, Inc. 2010 Annual Report on Form 10-K for the year ended December 31, 2010 are available at www.proxyvote.com.

PROPOSAL 1 ELECTION OF DIRECTORS

Our By-laws provide that the number of directors is established by our Board. For 2011, the number of directors is currently fixed at seven, divided into three classes as equal in number as possible and defined by the expiration dates of their terms of service. At the meeting, three directors will be elected to terms of three years, expiring in 2014, and until their respective successors are elected and qualified.

Ronald M. Lindsay, William G. Messenger and Patrick J. Zenner, all of whom are presently serving as directors, have been nominated for re-election by our Board for a term of three years. Unless your proxy withholds authority to vote for any of the nominees, the shares represented by your proxy will be voted for their election as the Board's nominees. If any nominee is unable to serve, which is not expected, the shares represented by your proxy will be voted for such other candidate as may be nominated by the Board.

Vote Required

The affirmative vote of a plurality of the shares of Common Stock cast by the stockholders present at the meeting, in person or by proxy, and entitled to vote on this proposal is required to elect each of the nominees. Broker non-votes and votes withheld will not affect the outcome of the election of directors.

Set forth below is certain information about the qualifications and other directorships of the nominees and our continuing incumbent directors.

Nominees for Terms Expiring at the 2014 Annual Meeting

Ronald M. Lindsay, Ph.D. (Age: 63) Dr. Lindsay has been a director since June 2005. He currently operates Milestone Consulting, a biopharmaceutical consulting enterprise. Dr. Lindsay was previously Chief Scientific Officer and Vice President, Research and Development, at diaDexus Inc. from 2000 to 2004, and held a number of positions at Millennium Pharmaceuticals, Inc., including Senior Vice President, Biotherapeutics, from 1997 to 2000. At Regeneron Pharmaceuticals, where he worked from 1989 to 1997, he was a founding scientist and Vice President, Neurobiology. Dr. Lindsay also worked at the Sandoz Institute for Medical Research, London from 1984 to 1989, where he was Head of Cell Biology. He is a director and Executive Vice President of Research and Development of Sequenom Inc., a director of HistoRx Inc., and a Senior Advisor to TVM-Capital, Munich. Dr. Lindsay is Executive Chairman of NeuroCentRx Pharmaceuticals Ltd., Edinburgh, Scotland, which he co-founded in 2008. Dr. Lindsay completed post-doctoral work at the Friedrich Miescher Institute, and he holds a B.Sc. (Hons) in chemistry from the University of Glasgow and a Ph.D. in biochemistry from the University of Calgary.

William G. Messenger, D. Min. (Age: 50) Dr. Messenger has been a director since January 2005. He chairs the Company's Compensation, Nominating and Governance Committee and is a member of its Audit Committee. He has been the owner and managing director of the Lexington Sycamore Group, consultants in the fields of business strategy, organization and leadership, since 1994. Dr. Messenger also serves as the Executive Editor of the Theology of Work Project, a small international organization conducting research and publication in the field of business ethics. He currently serves as adjunct professor of business ethics at Rensselaer Polytechnic Institute and a lecturer in business ethics at Holy Cross College. From 1999 to 2008, Dr. Messenger served as Director of the Mockler Center for Faith and Ethics in the Workplace at Gordon-Cornwell Theological Seminary. Dr. Messenger received a B.S. in Physics with highest honors from Case Western Reserve University, an M.B.A. with high distinction from Harvard Business School, a Master of Divinity degree, *summa cum laude*, from Boston University School of Theology, and a Doctor of Ministry from Gordon-Conwell Theological Seminary.

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Patrick J. Zenner (Age: 64) Mr. Zenner was named Chairman of the Board in May 2004 and has been a director since 2002. Mr. Zenner retired in 2001 from the position of President and Chief Executive Officer of Hoffmann-La Roche Inc., North America. Hoffmann-La Roche Inc., based in Nutley, N.J., is the prescription drug unit of the Roche Group. Mr. Zenner held various executive positions during his 32-year career with the company. Mr. Zenner is currently on the Board of Trustees of Creighton University and is Chairman of the Board of Trustees of Fairleigh Dickinson University. In addition, Mr. Zenner is a member of the Boards of Directors of West Pharmaceutical Services, Inc., and Par Pharmaceuticals, Inc. In 2010, he resigned from the boards of Geron Corporation, Xoma Ltd. and Exact Sciences, Inc. Until its sale in September 2009, Mr. Zenner was a director of CuraGen Corporation. He has a B.S./B.A. from Creighton University and an M.B.A. from Fairleigh Dickinson University.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THE ELECTION OF THE NOMINEES LISTED ABOVE.

Continuing Incumbent Directors with Terms Expiring at the 2012 Annual Meeting

Timothy C. Barabe (Age: 58) Mr. Barabe has been a director since November 2001. Mr. Barabe is currently Executive Vice President and Chief Financial Officer of Affymetrix, Inc. Previously, from July 2006 until March 2010, he was Senior Vice President and Chief Financial Officer of Human Genome Sciences, Inc. He was with Regent Medical Limited, a U.K.-based, privately owned, surgical supply company, where he was Chief Financial Officer, from 2004-2006. Mr. Barabe served with Novartis AG from 1982 through August 2004 in a succession of senior executive positions in finance, general management and strategic planning, most recently as the Chief Financial Officer of Sandoz GmbH, the generic pharmaceutical subsidiary of Novartis. Mr. Barabe received his B.B.A. degree from the University of Massachusetts (Amherst) and his M.B.A. degree from the University of Chicago.

Paolo Pucci (Age: 49) Mr. Pucci joined ArQule as Chief Executive Officer and a member of the board of directors in June 2008 from Bayer A.G., where he served as senior vice president and president in charge of the Bayer-Schering Pharmaceuticals Global Oncology/Specialized Therapeutics Business Units. Previously, Mr. Pucci was senior vice president of Bayer Pharmaceuticals Global Specialty Business Unit, president of U.S. Pharmaceutical Operations and a member of the Bayer Pharmaceuticals Global Management Committee. At Bayer, Mr. Pucci was involved in a broad range of activities related to Nexavar® (sorafenib), an oral multiple kinase inhibitor used to treat liver and kidney cancers. These activities included clinical development, regulatory review, corporate alliance management, product launch and marketing. Mr. Pucci joined Bayer as head of its Italian Pharmaceutical operations in 2001. Prior to Bayer, Mr. Pucci held positions of increasing responsibility with Eli Lilly, culminating with his appointment as Managing Director, Eli Lilly Sweden AB. At Lilly, his responsibilities included operations, sales, marketing and strategic planning. Mr. Pucci holds an MBA from the University of Chicago and is a graduate of the Università Degli Studi Di Napoli in Naples, Italy.

Continuing Incumbent Director with Term Expiring at the 2013 Annual Meeting

Michael D. Loberg, Ph.D. (Age: 63) Dr. Loberg has been a director since January 2007. Dr. Loberg is a member of the Board of Directors of Inotek Pharmaceuticals Corporation, a developer of ophthalmic medicines, and recently served as its Interim Chief Executive Officer. Previously, he served as Chief Executive Officer and a member of the Board of Directors of NitroMed, Inc., a pharmaceutical company, from September 1997 to March 2006 and as its President from September 2003 to March 2006. From 1979 to 1997, Dr. Loberg held a number of senior management positions at Bristol-Myers Squibb, including President of Bristol-Myers Squibb's Oncology and Immunology, U.S. Primary Care, Northern Europe, Specialty Pharmaceuticals and Squibb Diagnostics divisions, as well as director and Vice President, E.R. Squibb & Sons Research and Development.

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Prior to his employment with Bristol-Myers Squibb, Dr. Loberg was an associate professor of medicine and pharmacy from 1976 to 1979 and an assistant professor from 1973 to 1976 at the University of Maryland. Since 2004, Dr. Loberg is a director of Kereos, Inc., a developer of targeted molecular imaging agents and therapeutics. Until May 2009 when he did not stand for reelection, he was a director of AMAG, a biotechnology company focused in renal disease. He holds a B.S. in Chemistry from Trinity College and a Ph.D. in Chemistry from Washington University.

Susan L. Kelley, M.D. (Age: 56) Dr. Kelley has been a director since April 27, 2011. From 2001 to 2008, Dr. Kelley was employed by Bayer Healthcare Pharmaceuticals and Bayer-Schering Pharma in Germany and the United States serving as Vice President, Global Strategic Drug Development, Cancer and Metabolics from April 2001 to May 2002 and from May 2002 until June 2008 as Vice President, Global Clinical Development and Therapeutic Area Head-Oncology. From July 2008 to March 2011, she was Chief Medical Officer of The Multiple Myeloma Research Foundation/Consortium. Most recently, she has been an independent consultant to the pharmaceutical and biotechnology industries in the field of oncology drug development and strategy. Dr. Kelley has an A.B. Biology, *magna cum laude* from Colgate University and an M.D. from Duke University School of Medicine. She was a Fellow in Medical Oncology and Clinical Fellow in Medicine at Dana-Farber Cancer Institute, Harvard Medical School and a Fellow in Medical Oncology and Pharmacology at Yale University School of Medicine where she also served as a Clinical Assistant Professor of Medicine.

Dr. Nancy Simonian, who was member of the class of directors whose term of service expired in 2013, announced on March 18, 2011 that she was resigning from our Board, effective March 31, 2011. Dr. Simonian (age 50) was a director since May 2006. Dr. Simonian is currently Chief Medical Officer and Senior Vice President of Clinical, Medical, and Regulatory Affairs at Millennium Pharmaceuticals, Inc. The Takeda Oncology Company, where she has worked since 2001.

Corporate Governance Guidelines

At ArQule, we value honesty, integrity, and fairness in our dealings with our fellow employees, our stockholders, our collaborators and our communities. In addition to meeting both the letter and the spirit of regulations and rules adopted by the Securities and Exchange Commission ("SEC"), other federal and state laws and regulations and the standards of the Nasdaq Global Market ("Nasdaq"), our directors have mandated that our business dealings comply with the highest ethical and corporate governance standards.

We have adopted general corporate governance principles, the ArQule Corporate Code of Conduct ("Code of Conduct") and related policies to provide guidance to our directors and management in their efforts to provide effective and appropriate corporate governance. As is the case with our other policies and practices, the tenets reflected in the Code of Conduct and policies are intended to align the interests of our directors, management and other employees with those of our stockholders. We will review and, if necessary in our judgment, modify the guidelines from time to time. The governance principles, Code of Conduct, and certain related policies are available on our website at <http://www.arqule.com> in the "Investors and Media" Section under the heading "Corporate Governance."

Corporate Code of Conduct

The Code of Conduct applies to our directors, employees and officers, including our Chief Executive Officer, President and Chief Operating Officer, Vice President of Finance, Corporate Controller and Treasurer (our principal executive officer, principal financial officer and principal accounting officer, respectively), and our Chief Medical Officer and Chief Scientific Officer. The Code of Conduct addresses: the standards of conduct expected of each director, officer and employee; conflicts of interest; disclosure process; compliance with laws, rules and regulations (including insider

trading laws); corporate opportunities; confidentiality; fair dealing; and protection and proper use of Company assets. It also strongly encourages the reporting of any illegal or unethical behavior. Waivers of the requirements of the Code of Conduct or associated policies with respect to members of the Board and executive officers are subject to the approval of the full Board or a committee of the Board to which resolution of the matter is delegated and will be disclosed on our website.

Director Qualifications and Nomination Process

Director Qualifications

The Compensation, Nominating and Governance Committee (the "Compensation Committee") identifies nominees for directors from various sources including referrals from current Board members and industry contacts. In the past, the Compensation Committee has used third party consultants to assist in identifying, evaluating, and recruiting potential nominees, but no third party consultant was used during 2010. The directors have not set formal criteria or qualifications for individuals to be nominated or re-nominated as candidates for Board membership. Instead, the Compensation Committee has developed a general profile for candidates reflecting the personal and professional characteristics that our directors believe a suitable individual should possess. Such characteristics include integrity, suitable business acumen and educational background, relevant industry experience, understanding of interpersonal relationships, no conflict of interest, a high degree of commitment to the functioning of the Board and its committees, and the ability to meet the independence and financial literacy requirements defined by applicable Nasdaq and SEC rules. Additionally, the Compensation Committee carefully considers issues of diversity among its members in identifying and considering potential nominees and attempts, where appropriate, to achieve a diversity of professional experiences, business cultures, perspectives, genders, ages and ethnicities, among other characteristics, in the membership of Board and its committees. The Company does not require members of the Board (or our executive officers) to purchase or hold a minimum number of shares of our Common Stock.

Our Company is a clinical-stage biotechnology company engaged in the research and development of innovative cancer therapeutics. In light of the Company's current needs and business priorities, the Compensation Committee believes that the Board's membership should include directors with a high level of scientific and relevant business experience. Our business requires an understanding of the science behind our pre-clinical and clinical product candidates, as well as the clinical development and commercialization processes. Accordingly, the Compensation Committee has determined that scientific, drug development and commercialization experience should be represented on the Board. In addition, as a public company, our Board should include individuals who are financially literate to serve as members of the audit and other committees. We also believe that members should have a firm grounding in corporate governance and business ethics. Lastly, our business is dynamic and rapidly evolving and benefits from having a Board that includes individuals from a variety of backgrounds and professional experiences who contribute to the Board's overall ability to identify and ask difficult questions and to think innovatively.

The following table summarizes the specific qualifications, attributes, skills and experience described above that each individual director contributes to the Board. An "X" in the chart below indicates that a specific competency for which the director has been appointed to serve on the Company's Board.

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The lack of an "X" for a particular qualification does not mean that the director does not possess that qualification or skill. Rather, an "X" indicates a specific area of focus or expertise of a director on which the Board currently relies.

	Timothy C. Barabe (1)	Ronald M. Lindsay (3)	Michael Loberg (2)(3)	William Messenger (1)(2)	Paolo Pucci	Patrick Zenner (1)(2)	Susuan L. Kelley (3)
High level of financial literacy	X		X	X	X	X	
Relevant biotechnology business experience	X	X	X	X	X	X	X
Extensive knowledge of drug research and development		X	X		X		X
Extensive knowledge of drug commercialization and marketing	X	X			X	X	
Expertise in corporate governance and business ethics	X			X		X	
Diversity of background, professional experience or culture			X	X	X		X

- (1) Member of Audit Committee
- (2) Member of Compensation Committee
- (3) Member of Science Committee

Stockholder Nominations

The Compensation Committee has not established any special procedures for stockholder submissions of nominees for election to the Board. Our By-laws permit any stockholder entitled to vote for the election of directors to nominate one or more directors. We believe that this long-standing mechanism, in place since incorporation of the Company, provides the appropriate means for stockholder nominations. Pursuant to our By-laws, a stockholder wishing to nominate a director candidate must deliver or mail written notice of such nomination to the Chairman of the Board, the President, or the Secretary of the Company at our principal executive office. If a stockholder is nominating a director candidate for election at the annual meeting of stockholders, notice must be received at least 75 days before the anniversary date of the prior year's meeting, assuming there was an annual meeting in the prior year and the date of the current year's annual meeting is within 30 days of the anniversary date of the prior year's meeting. Otherwise, notice must be received at least 45 days before the date of the current year's annual meeting or a special meeting, if at least 60 days' notice or prior public disclosure of the date of the current year's annual meeting or the special meeting is provided. If neither of the previous two sentences applies, notice must be received no later than 15 days after the date on which notice of the date of the current year's annual meeting or the special meeting was mailed or public disclosure was made of such meeting date. The notice must include the stockholder's name and address, the class and number of shares of securities beneficially owned by such stockholder, and each nominee's:

- (i) name, age, business address, and home address;
- (ii) principal occupation or employment;
- (iii) beneficial ownership of Company securities, including the class and number of shares of stock; and
- (iv) any other information relating to the nominee that is required to be disclosed in solicitations for proxies for election of directors by Regulation 14A under the Securities Exchange Act of 1934, as amended (the "Exchange Act").

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The Compensation Committee will consider all nominees submitted by stockholders in the manner described above and will evaluate all potential nominees using the same criteria.

The Board's Role in Risk Oversight

The role of our Board in our Company's risk oversight process includes receiving regular reports on areas of material risk to our Company, including clinical, regulatory, financial, legal, strategic and reputational risks. The full Board (or the appropriate committee in the case of risks that are under the purview of a particular committee) receives these reports from the member of management responsible for the function from which the risk arises so that it can understand and assess our ongoing risk identification, risk management and risk mitigation strategies. Our Board also administers its risk oversight function through the required approval by the Board (or a committee of the Board) of significant transactions and other material decisions, and regular periodic reports from our company's independent registered public accounting firm and other outside consultants regarding various areas of potential risk, including, among others, those relating to our internal controls and financial reporting. As part of its charter, the Audit Committee discusses with management and our independent registered public accounting firm significant risks and exposures and the steps management has taken to minimize those risks.

Communications with Directors

We do not have a formal process for communication by stockholders to our directors. However, stockholders and others who wish to communicate may write to the Board as a whole, or to individual directors c/o:

Investor Relations
ArQule, Inc.
19 Presidential Way
Woburn, Massachusetts 01801-5140
Attn. William B. Boni
Vice President, Investor Relations/Corporate Communications

Such communications will be forwarded directly to the addressee(s).

Director Independence

For a director to be designated as independent, as defined by the Nasdaq listing standards set forth below, our Board must determine that he or she has no "material relationship" with ArQule other than that of a director. When assessing the materiality of a director's relationship with ArQule, the Board considers:

all relevant facts and circumstances, not only of the director's relationship with the Company, but also that of the persons or organizations with which the director is affiliated;

the frequency and regularity of any services the director performed for the Company outside of the scope of duties as a director;

whether the director carried out those services at arm's length in the ordinary course of business; and

whether the director provided those services on substantially the same terms as those prevailing at the time for unrelated parties in comparable transactions.

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For a Nasdaq-listed company, a director is not considered independent if any of the following circumstances exist:

the director is currently, or was at any time during the preceding three years, employed by the listed company, its parent or subsidiaries, or if any of the director's family members is, or was, an executive officer of the listed company, its parent or subsidiaries, at any time during the preceding three years;

the director has accepted, or has a family member who has accepted, from the listed company, its parent or subsidiaries, any payment in excess of \$120,000 during any twelve-month period within the preceding three years, other than (a) compensation for board or board committee services, (b) compensation paid to a family member who is a non-executive employee of the listed company, its parent or any subsidiary; or (c) benefits under a tax-qualified retirement plan or non-discretionary compensation;

the director is, or has a family member who is, employed as an executive officer of any other entity where at any time during the preceding three years any of the executive officers of the company served on the compensation committee of such other entity;

the director is, or has a family member who is, a partner in, or a controlling stockholder or an executive officer of, any organization to which the listed company made, or from which the company received, payments (other than payments arising solely from investments in the listed company's securities or payments under non-discretionary charitable contribution matching programs) that exceed the greater of \$200,000 or 5% of the recipient's consolidated gross revenues during the current or any of the past three fiscal years;

the director is, or has a family member who is, a current partner of the listed company's outside auditors, or was a partner or employee of the listed company's outside auditor who worked on the listed company's audit at any time during the past three years; or

the director otherwise has a relationship that, in the opinion of the listed company's board of directors, would interfere with the exercise of independent judgment in carrying out the responsibilities of a director.

On January 21, 2011, our Board determined that all of our directors, other than our Chief Executive Officer, are "independent directors" as defined in the listing standards of the Nasdaq Marketplace Rules, and these directors constitute a majority of the members of the Board.

Review and Approval of Related Person Transactions

Pursuant to our written Conflict of Interest Policy, no director, director nominee, or executive officer may enter into any transaction or relationship that is disclosable by the Company pursuant to SEC Regulation S-K, Item 404, without the prior approval of the disinterested members of our Compensation Committee. No director or executive officer may directly or indirectly approve, or represent the Company or the other party in arranging, the terms of any transaction between the Company and a party with which he/she has any relationship of a type that is disclosable by the Company pursuant to Item 404. All transactions between ArQule and a party with which a director or executive officer has such a relationship shall be on an arm's length basis.

Relationships or transactions disclosable under Item 404 may be deemed acceptable and appropriate upon full disclosure of the relationship or transaction, review of all of the relevant factors, including those specified in our Conflict of Interest Policy, and approval by the disinterested members of our Compensation Committee.

Compensation Committee Interlocks and Insider Participation

No member of the Compensation Committee during 2010 served as an officer, former officer, or employee of the Company or had a relationship disclosable under our policies or SEC regulations. Further, during 2010, no executive officer of the Company served as:

a member of the compensation committee (or equivalent) of any other entity, one of whose executive officers served as one of our directors or was an immediate family member of a director, or served on our Compensation Committee; or

a director of any other entity, one of whose executive officers or their immediate family member served on our Compensation Committee.

BOARD COMMITTEES AND MEETINGS

The Board held eight meetings during 2010. Each director attended at least 75% of the aggregate number of meetings of the Board and the committees of the Board on which he or she served.

We do not have a policy regarding attendance of directors at our annual meeting of stockholders. In May 2010, all our directors attended our annual meeting. We also do not have a formal policy regarding the separation of our Board Chairman and Chief Executive Officer positions. At this time, the positions are separate, as the Board believes this structure to be in the best current interests of the Company and our stockholders.

Committees of the Board

Our Board has a standing audit committee (the "Audit Committee"), compensation, nominating, and governance committee (the "Compensation Committee"), and science committee (the "Science Committee"). Independent directors chair and entirely make up each of these committees. The Board has adopted written charters for each of our standing committees, which may be viewed by accessing the "Investors and Media" Section of our website at www.arqule.com and clicking on the headings "Corporate Governance" and "Committee Charters."

Audit Committee

In 2010, the members of the Audit Committee were Mr. Barabe (Chairman), Dr. Messenger, and Mr. Zenner. The Audit Committee met five times in 2010. Each member of the Audit Committee meets the independence and financial literacy requirements as defined by applicable Nasdaq and SEC rules. The Board has determined that Mr. Barabe is an "audit committee financial expert" as defined by the rules and regulations of the SEC.

The duties and principal purposes of the Audit Committee include:

generally, oversight of the integrity of the Company's financial reporting process;

in particular, monitoring of:

the integrity of the Company's financial statements;

the Company's compliance with legal and regulatory requirements; and

the qualifications, independence and performance of the Company's independent registered public accountants and of its internal audit function;

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pre-approval of all audit services;

preparation of the audit committee report that is required to be included in the proxy statement for our annual meeting of stockholders;

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assessment of significant financial risks and exposures and the adequacy of the Company's overall risk assessment and risk management policies and procedures;

evaluation of whether risks presented by the Company's financial policies and practices are likely to have a material adverse effect on the Company; and

assessment of the steps management has taken to control risks to the Company.

The Company's independent registered public accounting firm (currently, PricewaterhouseCoopers LLP, an independent registered public accounting firm) is ultimately accountable to the Audit Committee in its capacity as a committee of the Board. The Audit Committee has sole authority and responsibility to select, hire, oversee, evaluate, approve the compensation of, and, where appropriate, replace our independent registered public accounting firm.

Additional information regarding the responsibilities of the Audit Committee is provided in the committee's charter.

The report of the Audit Committee is on page 30.

Compensation Committee

In 2010, the members of the Compensation Committee were Dr. Messenger (Chairman), Dr. Loberg and Mr. Zenner. The Compensation Committee met five times in 2010.

The duties and purposes of the Compensation Committee include:

advising the Board concerning the Company's compensation philosophy and policies, in general, and, in particular, to determine, or recommend to the Board for determination, the compensation of the Company's Chief Executive Officer and all other executive officers and directors;

advising the Board regarding succession planning for the Company's Chief Executive Officer;

identifying individuals qualified to become members of the Board;

recommending candidates to the Board to fill vacancies on the Board;

recommending to the Board the directors to be appointed to its committees;

assessing, or ensuring that the Board assesses, the performance of individual members of the Board and the Board as a whole;

administering our stock option, stock purchase, and other stock compensation plans;

reviewing and approving or rejecting proposed related party transactions;

reviewing with management the annual compensation discussion and analysis ("CD&A") section of the Company's disclosures to the SEC prepared by management and recommending to the Board whether the CD&A should be included in the Company's filings with the SEC;

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reviewing and approving an annual report on the Compensation Committee's review of the CD&A for inclusion in the Company's proxy statement; and

overseeing the Company's efforts to meet its corporate governance, legal, and regulatory obligations and identifying, reviewing, and resolving issues relating to such matters.

Additional information regarding the responsibilities of the Compensation Committee is provided in the committee's charter.

The report of the Compensation Committee is on page 19.

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Science Committee

In 2010, the members of the Science Committee were Dr. Lindsay (Chairman), Dr. Loberg and Dr. Simonian. Dr. Kelly joined the Science Committee effective as of her appointment to the Board on April 27, 2011. The Science Committee met four times during 2010.

The Science Committee is responsible for:

reviewing the scientific direction of the Company;

playing a role in assessing the manner by which the Company will continue to enhance its capabilities as a drug discovery organization (whether by acquisition, merger, in-licensing, internal growth, or a combination of those methods);

evaluating the scientific opportunities under consideration by management; and

as requested by management, reviewing data relating to new scientific directions for the Company and other science-related matters.

Additional information regarding the responsibilities of the Science Committee is provided in the committee's charter.

DIRECTOR COMPENSATION

The following table provides information concerning compensation paid by the Company to its non-employee directors during 2010. Any director who is also an employee of the Company is not compensated for his or her service as a director. During 2010 Mr. Pucci, the Company's Chief Executive Officer, also served on the Board, but did not receive any compensation for services as a director.

Name	Fees Earned or Paid in Cash (\$)	Option Awards(1) (\$)	Total (\$)
Timothy C. Barabe(2)	\$ 53,125	\$ 55,658	\$ 108,783
Ronald M. Lindsay, Ph.D.	52,500	55,658	108,158
Michael D Loberg, Ph.D.(3)	42,750	55,658	98,408
William G. Messenger, D. Min.	51,750	55,658	107,408
Nancy A. Simonian, MD	36,750	55,658	92,408
Patrick J. Zenner	57,750	92,763	150,513

- (1) This column reflects the aggregate grant date fair value for all option awards granted during 2010. Assumptions used in the calculation of this amount are included in Note 2 to the Company's audited financial statements for the year ended December 31, 2010, set forth in the Company's Annual Report on Form 10-K filed with the SEC on March 2, 2011 ("2010 Annual Report on Form 10-K"). As of December 31, 2010, for each director the aggregate number of shares of Common Stock that may be acquired upon exercise of outstanding option awards is as follows: Mr. Barabe, 81,000; Dr. Lindsay, 65,000; Dr. Loberg, 65,000; Dr. Messenger, 70,000; Dr. Simonian, 65,000; and Mr. Zenner, 107,500.
- (2) Mr. Barabe elected to have a portion of his fees for service as a director in the amount of \$31,832 paid to him in the form of 6,966 shares of our Common Stock in accordance with our 2005 Director Stock Compensation Plan. The number of shares was determined on the date of the payment of director fees based on the closing market price for a share on that date.
- (3) Mr. Loberg elected to have a portion of his fees for service as a director in the amount of \$21,326 paid to him in the form of 4,695 shares of our Common Stock in accordance with our 2005

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Director Stock Compensation Plan. The number of shares was determined on the date of the payment of director fees based on the closing market price for a share on that date.

Currently, each of our non-employee directors who is serving as a director prior to and immediately following any annual meeting of stockholders receives a \$20,000 annual retainer. Each non-employee director receives \$2,000 for each day on which the Board meets and the director attends and \$1,000 for each day on which a committee of the Board meets and the director attends. In addition to the base compensation for directors, chairs of committees receive additional compensation. The director serving as Chairman of the Board (currently, Mr. Zenner) receives an additional \$15,000 annual retainer; the director serving as Chairman of the Audit Committee (currently, Mr. Barabe) receives an additional \$15,000 annual retainer; the director serving as Chairman of the Compensation Committee (currently, Dr. Messenger) receives an additional \$10,000 annual retainer; and the director serving as Chairman of the Science Committee (currently, Dr. Lindsay) receives an additional \$15,000 annual retainer.

All of our non-employee directors, currently six directors, are eligible to participate in our Amended and Restated 1996 Director Stock Option Plan. Pursuant to the terms of such plan on March 14, 2011, the Directors voted to amend the plan to increase the number of shares subject to options granted to directors. See Appendix C.

Pursuant to the Director Stock Option Plan, an option to purchase 30,000 shares of Common Stock is automatically granted to each non-employee director (other than the Chairman) at the time that he or she is first elected or appointed to the Board. This initial option will become exercisable as to 10,000 shares on the date of the Company's next annual meeting following the date of grant and as to 10,000 shares on the date of each of the next two annual meetings.

Also, at each annual meeting of stockholders, each eligible director (other than the Chairman) serving as a member of the board of directors prior to and immediately after such annual meeting is automatically granted an immediately exercisable option to purchase 15,000 shares of Common Stock (whether or not the director is a nominee for election at such annual meeting).

Upon the initial election of a non-employee director as Chairman of the Board, the non-employee director will be automatically granted an option to purchase 25,000 shares of Common Stock. These options become exercisable as to 8,334 shares on the date of the Company's next annual meeting of stockholders following the date of grant and as to 8,333 shares on the date of each of the next two annual meetings of stockholders.

In addition, at each annual meeting of stockholders, the eligible director serving as Chairman of the Board prior to and immediately after such annual meeting will be automatically granted an immediately exercisable option to purchase 25,000 shares of Common Stock (whether or not the Chairman is a nominee for election at such annual meeting).

Pursuant to our 2005 Director Stock Compensation Plan, the Company's non-employee directors may elect to receive in lieu of all or a part of their cash compensation for service as a director, an equivalent amount of Common Stock. As noted in the table above, in 2010 Mr. Barabe and Dr. Loberg received a portion of their director fees in the amount of \$31,832 and \$21,326, respectively, in the form of Common Stock. The number of shares was determined on the date of the payment of director fees based on the closing market price for a share of Common Stock.

COMPENSATION DISCUSSION AND ANALYSIS

The Compensation Committee is responsible for determining the compensation of our named executive officers, including our Chief Executive Officer.

Compensation Philosophy

Guiding Principles:

Our executive compensation program is designed to be closely linked to corporate performance and returns to stockholders. To this end, we have developed an overall compensation strategy and a specific compensation plan that establish competitive base salaries and tie a significant portion of executive compensation to the Company's success in meeting specified and measurable Company-wide performance goals. By using stock options and other stock-based awards, we ensure that part of each executive's compensation is closely tied to the performance of our stock. We believe that a significant part of overall compensation for senior executives should be "at risk," i.e., contingent upon successful implementation of the Company's strategy and achievement of its goals. Individuals with the greatest influence on company-wide performance should have the largest amount of cash benefits and stock options at risk. In our view, a balanced approach to compensation decisions motivates management's efforts to drive positive outcomes in both the current and future environments and mitigates the risk that any one incentive could lead executive officers to take actions that are not in our best interests. In addition, the tying of compensation to performance goals that must be achieved in a heavily regulated business environment such as ours adds an additional layer of scrutiny to the Company's actions and lessens greatly the opportunities for individuals to take inappropriate actions without discovery and sanctions.

Objectives:

To attract and retain the best executive talent available;

To motivate our executives to achieve the goals inherent in our business strategy;

To link executive and stockholder interests through equity-based compensation; and

To provide a compensation package that recognizes individual contributions as well as corporate performance.

Key compensation elements:

Base salary;

Annual performance-based cash bonuses;

Stock-based incentive awards; and

Employee benefits.

Each of these elements is described in more detail below.

The Role of the Compensation Committee

The members of the Compensation Committee are currently Michael D. Loberg, Ph.D., William G. Messenger, D. Min. (Chairman), and Patrick J. Zenner. Each of the current members is an "independent director" under Nasdaq listing standards, a "Non-Employee Director" within the meaning of Section 16 of the Exchange Act, and an "outside director" within the meaning of Section 162(m) of the Internal Revenue Code of 1986, as amended (the "Tax Code").

The Compensation Committee advises our Board concerning the Company's compensation philosophy and policies, in general, and, in particular, determines, or recommends to the Board for determination, the compensation of our Chief Executive Officer and other named executive officers and members of the Board. Recommendations and decisions made by the Compensation Committee are reported to the full Board for approval or ratification, as appropriate.

The Compensation Committee's Process

General

The Compensation Committee sets the mix of elements of executive compensation including base salary, annual performance-based bonuses and stock-based awards for our named executive officers. While the Compensation Committee considers the elements of compensation described below separately, it takes into account the full compensation package afforded to each executive officer in making its recommendations. The Compensation Committee also makes recommendations concerning the appropriate linkage of executive compensation to individual and corporate performance and financial returns to stockholders.

The Compensation Committee considers the views of our Chief Executive Officer regarding achievement of individual and departmental objectives of those executives reporting directly to him. With the assistance of our Vice President of Human Development, the Compensation Committee reviews peer group data and additional selected data from the Radford Life Sciences Executive Survey produced by Radford Surveys & Consulting, a division of Aon Consulting ("Radford"). Our peer group of companies, which we review periodically, is comprised principally of non-commercial, life sciences companies with products in phase II or phase III clinical trials that Radford has deemed to be most comparable to us in market capitalization and head count. For 2010, the peer group companies consisted of the following:

Allos Therapeutics, Inc.	Maxygen, Inc.
Alnylam Pharmaceuticals, Inc.	Micromet Inc.
Ariad Pharmaceuticals, Inc.	Novavax, Inc.
Array BioPharma, Inc.	Rigel Pharmaceuticals, Inc.
BioCyst Pharmaceuticals, Inc.	Sangamo BioSciences, Inc.
Cytokinetics Inc.	SuperGen, Inc.
Dyax Corp.	Targacept, Inc.
Geron Corporatio	VIVUS, INC.
Infinity Pharmaceuticals, Inc.	XenoPort, Inc.

In addition, the Compensation Committee supplemented the peer group survey data with broader competitive market data from the Radford Global Life Sciences Executive Survey. Radford derived the data from non-commercial, public life sciences companies with between 50 and 350 employees. The overall market composite considered by the Compensation Committee was represented 50 percent by the peer group and 50 percent by the broader market reference group.

Benchmarking

In general terms, as a basis for its recommendations, the Compensation Committee benchmarks total compensation for all of our employees to the median compensation (*i.e.* 50th percentile) of employees performing similar job functions at biotechnology companies nationally, adjusted for differences in company size, stage of development, location, and performance. However, we strongly believe in retaining the best talent among our executive management team. Therefore, we have recommended, and may recommend in the future, total compensation packages for senior executive management that vary substantially from the median based on factors such as industry experience, scope of responsibility, knowledge, and unique qualifications.

Elements of Compensation*Base Salary*

Salary levels are considered annually as part of our performance review process, but also in the cases of promotion or other change in the job responsibilities of an executive officer. For named executive officers, initial base salaries generally are established in connection with negotiation of an offer of employment and employment agreement. Increases in base salary have several elements. In addition to promotion and increased responsibilities, merit and company-wide general increases are also factored in. Salaries of our named executive officers for 2010 and certain prior years are also reported in the Summary Compensation Table on page 20.

The following table shows changes in the annualized base salaries of our named executive officers from 2009 to 2010:

Name and Principal Position	2009 Annualized Base Salary (\$)	2010 Annualized Base Salary (\$)	% Increase	Comment
Paolo Pucci, CEO	450,000	475,000	5.6	Base salary negotiated in and adjusted per amended employment agreement and annual review.
Peter S. Lawrence, COO	384,000	392,000	2.0	Base salary negotiated in and adjusted per amended employment agreement and annual review.
Dr. Brian Schwartz, CMO	332,000	338,000	2.0	Base salary negotiated in and adjusted per employment agreement and annual review.
Dr. Thomas C.K. Chan, CSO	325,000	332,000	2.0	Base salary negotiated in and adjusted per employment agreement and annual review.

Performance-Based Bonuses

Cash bonuses represent a percentage of each named executive officer's salary. In determining the target award opportunity for the bonus of a particular executive, we consider compensation data and level of strategic contribution to the Company's performance. This determination is made at the time an executive officer is hired and generally is one of the negotiated terms of his or her employment agreement. Adjustments to bonus targets are also considered, subject to the requirements of those employment agreements, as part of the annual review process.

At the beginning of each fiscal year, we set corporate goals at minimum, planned, and maximum levels of performance and weight the goals according to their importance to our corporate strategy. Levels of performance for these goals are expressed as percentages which, when determined by our Board following conclusion of the fiscal year, are aggregated to arrive at an overall level of performance for the Company. In determining individual bonus amounts for our named executive officers, our directors take into consideration the Company's overall performance, the named executive officer's achievement of specific individual goals, and the amount of the named executive officer's target bonus.

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The following is a summary description of the primary corporate goals for 2010 used to determine performance-based bonuses:

C-Met Program ARQ 197

If Phase 2 clinical data are supportive, commence phase 3 non-small cell lung cancer trial by a specified date

If Phase 2 clinical data are supportive, commence Phase 3 c-met sarcoma trial by a specified date

Complete accrual of Phase 2 hepatocellular carcinoma (liver cancer) mono-therapy trial by a specified date

Complete expansion of Phase 1/2 trial of ARQ 197 in combination with Gemcitabine by a specified date

Eg5 Program ARQ 621

If Phase 1 clinical data are supportive, commence a Phase 2 trial by a specified date

Discovery Program

File one investigative new drug application on a new molecule from our FGFR or BRAF programs by a specified date

Complete lead optimization on two chemical scaffolds for our research and development collaboration with Daiichi Sankyo by a specified date

Business Development

Enter into a new collaboration for an early stage program or ArQule Kinase Inhibitor Program deal or extend an existing collaboration.

Arrange an agreement among Daiichi Sankyo, Kyowa Hakko Kirin and the Company for a global non-small cell lung cancer program

Finance

End 2010 with at least \$80 million of cash while meeting all key budget parameters

Publications & Presentations

Publish and present in a specified number and type of public forums data regarding our drug discovery and development programs

Following the recommendations of the Compensation Committee, our Board determined that, on a weighted basis, our overall level of performance warranted payment of bonuses at 110% of the bonus targets. This determination reflected results with respect to the C-Met Program, Discovery Program, Finance, Business Development and Publications & Presentations goals that were determined to be at

or above planned performance in most cases. The following table shows percentages of target and actual bonuses paid to our named executive officers.

Name and Principal Position	2010 Bonus Target (% of Base Salary)	2010 Bonus Actual (% of Base Salary)	Comment
Paolo Pucci, CEO	60%	66%	Target bonus set by terms of amended employment agreement. Actual Bonus 110% of target.
Peter S. Lawrence, COO	40%	44%	Target bonus set by terms of amended employment agreement. Actual bonus 110% of target.
Dr. Brian Schwartz, CMO	35%	38.5%	Target bonus set by terms of employment agreement. Actual bonus 110% of target.
Dr. Thomas C.K. Chan, CSO	35%	38.5%	Target bonus set by terms of employment agreement. Actual bonus 110% of target.

The amounts of cash bonus awards made to our named executive officers are also reported in the Summary Compensation Table on page 20.

Stock-based Awards

Primarily, we grant stock options and/or shares of restricted stock to the named executive officers under our Amended and Restated 1994 Equity Incentive Plan. It is our current policy to grant stock options and/or shares of restricted stock with an exercise price or share valuation equal to the closing price of our Common Stock as reported by Nasdaq on the date of grant. Options vest over various periods of time, generally four years. Restricted stock awards have restrictions which lapse over various periods of time, also generally four years. In one instance, we awarded to our Chief Executive Officer performance-based stock units, each of which represents a contingent right to receive one share of Common Stock, in two tranches of units that vest, respectively, upon the achievement of certain performance targets related to the development of the Company's products and the average price of our Common Stock within defined time periods.

Stock option grants, and awards of restricted stock and stock units, are designed to encourage the creation of stockholder value over the long term since the full benefits of the options and awards cannot be realized unless stock price appreciation is achieved, and, once achieved, is maintained and increased. Accordingly, awards of options, restricted stock and stock units align the interests of executive officers and employees with those of stockholders. In determining the amount of these grants and awards, we evaluate the executive's job level, promotions, responsibilities he or she will assume in the upcoming year, and responsibilities in prior years. In addition, we take into account the size of the executive's grants and awards in the past and market data relating to compensation. After consideration of all of these factors, as well as corporate and individual performance, in January 2011 for 2010, we awarded Mr. Pucci, in addition to the stock units discussed above and an option to purchase an additional 100,000 shares of our Common Stock described below under the caption "Employment Agreements", an option to purchase 300,000 shares of our Common Stock; Mr. Lawrence, an option to purchase 155,000 shares of our Common Stock; Dr. Schwartz, an option to purchase 140,000 shares of our Common Stock; and Dr. Chan, an option to purchase 140,000 shares of our Common Stock.

The Compensation Committee comes to a recommendation regarding annual stock option awards at a meeting in December prior to the first meeting of the Board in January of the following calendar year. At the January meeting, the Board acts upon the recommendations of the Compensation Committee. The effective date for such awards is the date of such meeting of the full Board.

Employment Agreements

ArQule generally enters into employment agreements with named executive officers. Typically, these agreements are offered in connection with recruiting executive officers when ArQule deems it necessary or appropriate to attract, incentivize and retain new hires. Agreements of this type exist to establish initial salary and bonuses, benefits, initial option grants, reporting lines, and change of control and related severance provisions, among other things. Mr. Pucci, Mr. Lawrence, Dr. Schwartz, and Dr. Chan have such agreements. Additional information regarding these agreements is set forth on page 21 in the "Employment Agreements" section and page 26 in the "Payments Upon Termination or Change in Control" section.

Other Elements of Compensation and Perquisites

We provide our named executive officers with certain benefits and perquisites. The value of such benefits and perquisites provided in 2010 was less than \$10,000 for each named executive officer. We provided these benefits on the same terms as those applicable to all of our other employees. The primary benefits are:

health (medical, dental and vision) insurance for which the Company pays a portion of the premiums;

a life insurance benefit equivalent to two times base salary up to a maximum of \$400,000 for which the Company pays the premiums;

long-term disability insurance equal to 60% of base salary up to \$15,000 per month, the premiums for which are paid by the Company with the amount of the premiums being included in the taxable compensation of employees;

if necessary in given circumstances to attract management talent, housing allowances and relocation costs;

a retirement plan (401(k) Plan) under which an employee can choose to contribute up to 60% (subject to Tax Code limits) of compensation on a pre-tax basis with a matching contribution from the Company of \$0.50 for each \$1.00 contributed up to the first 6% of compensation;

a tax-qualified stock purchase plan which permits participants to acquire shares of Common Stock at a price that is 85% of the stock price on either the first day or last day of the designated offering period (generally six months), whichever is lower; and

tuition reimbursement up to \$3,000 per year for undergraduate courses and \$6,000 for graduate courses.

Currently, the Company does not have a nonqualified deferred compensation plan, a pension plan, or other defined benefit plan. In addition, the Company does not have a policy on adjustments to, or recovery of, awards if the performance measures on which they were based are adjusted or restated.

Potential Payments to Named Executive Officers Upon Termination or Change in Control

The employment agreements of Mr. Pucci, Mr. Lawrence, Dr. Schwartz, and Dr. Chan provide for certain payments to be made to them in the event that their employment with the Company is, or is deemed to be (as provided in the employment agreements), terminated without "cause." Severance benefits are an important tool in attracting and retaining key employees, and provide a degree of financial security to such employees where their employment is terminated through no fault of their own. Each of the agreements also provides for acceleration of vesting of the executive's options in certain circumstances following the occurrence of a change in control of the Company. We believe that it is generally appropriate to vest option awards to key employees in a change in control transaction, as

such a transaction may often result in the elimination or reduction of the employee's ability to realize value from his or her options.

For information regarding the severance and change in control benefits provided to Mr. Pucci, Mr. Lawrence, Dr. Schwartz, and Dr. Chan under their employment agreements, see "Payments Upon Termination or Change of Control" on page 26.

Tax Considerations

If an executive is entitled to nonqualified deferred compensation benefits that are subject to Section 409A of the Tax Code, and such benefits do not comply with Section 409A, the executive would be subject to adverse tax treatment, including accelerated income recognition (in the first year that benefits are no longer subject to a substantial risk of forfeiture) and an additional income tax of 20% of the amount so recognized. The employment agreements of our named executive officers described herein contain provisions intended to limit or eliminate adverse tax consequences through timing of payments.

Section 162(m) of the Tax Code generally denies a deduction to any publicly held corporation for compensation paid to its named executive officers to the extent that any such individual's compensation exceeds \$1 million, subject to certain exceptions, including one for "performance-based compensation." Generally, the Compensation Committee seeks to maximize executive compensation deductions for federal income tax purposes. However, certain awards under the Company's Amended and Restated 1994 Equity Incentive Plan may result in an amount of compensation not being deductible under Section 162(m) of the Tax Code. At the Company's present stage of development, management and the Compensation Committee believe that the loss of a deduction is not significant to the Company. Management and the Compensation Committee take the issue of deductibility into consideration as our Amended and Restated 1994 Equity Incentive Plan and other benefit plans are updated. The Compensation Committee believes that none of the Company's named executive officers received compensation in 2010 that was nondeductible under Section 162(m) of the Tax Code.

COMPENSATION COMMITTEE REPORT

The Compensation, Nominating and Governance Committee of the Board of Directors of ArQule, Inc., composed entirely of independent directors in accordance with applicable laws, regulations, Nasdaq listing requirements and our governance guidelines, sets and administers policies that govern the Company's executive compensation programs and various incentive and stock programs. The Compensation, Nominating and Governance Committee has reviewed and discussed the Compensation Discussion and Analysis with the management of ArQule, Inc. Based on this review and discussion, the Committee recommended to the full Board of Directors that the Compensation Discussion and Analysis be included in this proxy statement.

Submitted by the Compensation,
Nominating and Governance Committee,

William G. Messenger, Chairman
Michael D. Loberg
Patrick J. Zenner

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EXECUTIVE COMPENSATION

The table and text below describe the cash and additional incentive compensation paid to the Company's Chief Executive Officer, President and Chief Operating Officer (principal financial officer for SEC reporting purposes), Chief Scientific Officer and Chief Medical Officer (the "named executive officers") for the fiscal periods indicated.

SUMMARY COMPENSATION TABLE

The following table summarizes total compensation earned during the fiscal years ended December 31, 2010, 2009 and, 2008 by each of our named executive officers:

Name and Principal Position	Year	Salary (\$) (1)	Bonus (\$)	Stock Awards (\$) (2)	Option Awards (\$) (3)	Non-Equity Incentive Plan	All Other Compensation	Total (\$)
						(4)	(5)	
Paolo Pucci	2010	461,250			714,688	313,500	7,926	1,497,364
Chief Executive Officer	2009	450,000		238,950		202,500	11,890	903,340
	2008	250,962	200,000	493,750	1,039,550	225,000	20,754	2,230,016
Peter S. Lawrence	2010	391,472			270,075	172,508	7,926	841,981
President, Chief Operating Officer, General Counsel and Secretary	2009	383,654		265,500		138,375	7,890	795,419
	2008	373,846			518,020	150,000	7,428	1,049,294
Dr. Brian Schwartz	2010	337,753			186,975	130,231	7,926	662,885
Chief Medical Officer and Senior Vice President	2009	331,120		41,418		104,463	7,673	484,674
	2008	150,000			387,700	47,400	5,956	591,056
Dr. Thomas C. K. Chan	2010	331,000			186,975	127,628	576	646,179
Chief Scientific Officer and Senior Vice President	2009	323,769		70,800		87,750	540	482,859
	2008	287,808			288,815	73,267	528	650,418

- (1) The amounts in this column include compensation earned but deferred at the election of the named executive officer, under the Company's retirement savings plan established under Section 401(k) of the Tax Code.
- (2) This column reflects the aggregate grant date fair value for all stock awards granted during the fiscal year. Assumptions used in the calculation of this amount are included in Note 2 to the Company's audited financial statements for the year ended December 31, 2010, included in the Company's Annual Report on Form 10-K filed with the SEC on March 2, 2011 ("2010 Annual Report on Form 10-K"). Additional information regarding stock options issued to the named executive officers is provided in the tables "Outstanding Equity Awards at Fiscal Year-End".
- (3) This column reflects the aggregate grant date fair value for all option awards granted during the fiscal year. Assumptions used in the calculation of this amount are included in Note 2 to the Company's audited financial statements for the year ended December 31, 2010, included in the Company's 2010 Annual Report on Form 10-K. Additional information regarding stock options issued to the named executive officers is provided in the tables "Outstanding Equity Awards at Fiscal Year-End".
- (4) Represents bonus amounts earned under our annual incentive program for 2010 and paid in the first quarter of 2011. Additional information regarding the annual incentive program is provided in the "Compensation Discussion and Analysis Performance-Based Bonuses" beginning on page 15.
- (5)

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In 2011, for each named executive officer, the amount includes the Company's contributions to a 401(k) plan account for the executive and payment of group term life insurance premiums. Reimbursed temporary housing and living expenses of \$4,000 in 2009 and \$17,211 in 2008 for Mr. Pucci are included in all other compensation.

EMPLOYMENT AGREEMENTS

The Company is party to employment agreements with four of its named executive officers. A summary of the material terms of these agreements follows below. For information regarding the post-employment and change in control benefits provided by these agreements, see "Payments Upon Termination or Change in Control" on page 26.

Employment Agreement with Paolo Pucci

Mr. Pucci's agreement originally provided that the Company would employ him as its Chief Executive Officer effective June 9, 2008, at an initial annual base salary of \$450,000. The base salary was subject to annual review and upward adjustment by the Company. The agreement also provided that Mr. Pucci was eligible to receive a discretionary annual cash bonus based on a target amount of 50% of his base salary. The award of a bonus is in the discretion of the Company's Board based on Company and individual performance.

On July 15, 2010, the Company, acting through its Compensation Committee, amended certain terms of Mr. Pucci's employment agreement. The amendment: (i) extends the term of the agreement from June 9, 2012 to June 30, 2015; (ii) increases Mr. Pucci's minimum base salary by approximately five percent; (iii) increases the target amount of the discretionary annual cash bonus payable to Mr. Pucci under the agreement from 50% to 60% of Mr. Pucci's annual base salary; (iv) revises the definition of the occurrences following a change in control of the Company which constitute a deemed termination of Mr. Pucci's employment; (v) grants Mr. Pucci stock options covering 100,000 shares of the Company's Common Stock; (vi) grants Mr. Pucci 390,000 performance-based stock units, each of which represents a contingent right to receive one share of Common Stock, in tranches of 300,000 and 90,000 units that vest, respectively, upon the achievement of certain performance targets related to the development of the Company's products and the average price of its Common Stock; and (vii) provides that, if a deemed termination without cause of Mr. Pucci's employment under the agreement occurs prior to achievement of such product development, 300,000 of the performance-based stock units will vest if the average price of Common Stock meets or exceeds a target price over a specified period established by the Compensation Committee.

All other material terms of the employment agreement that were in effect prior to the amendment remain in effect.

Employment Agreement with Peter S. Lawrence

Mr. Lawrence's agreement, as amended, provides that we will employ Mr. Lawrence as President and Chief Operating Officer at an initial base salary of \$375,000 per year. The base salary is subject to annual review and upward adjustment by the Company. Mr. Lawrence is also eligible to receive a discretionary annual cash bonus based on a target amount of 40% of his base salary. The award of a bonus is in the discretion of the Company's Board based on Company and individual performance.

Employment Agreement with Brian Schwartz

Dr. Schwartz's agreement provides that the Company will employ Dr. Schwartz as its Chief Medical Officer at an initial annual base salary of \$325,000. The base salary is subject to annual review and upward or downward adjustment by the Company. Dr. Schwartz is also eligible to receive a discretionary annual cash bonus based on a target amount of 35% of base salary. The award of a bonus is in the discretion of the Company's Board based on Company and individual performance.

Employment Agreement with Thomas C. K. Chan

Dr. Chan's agreement provides that the Company will employ Dr. Chan as its Chief Scientific Officer at an initial annual base salary of \$309,000. The base salary is subject to annual review and upward or downward adjustment by the Company. Dr. Chan is also eligible to receive a discretionary annual cash bonus based on a target amount of 30% of base salary. The award of a bonus is in the discretion of the Company's Board based on Company and individual performance.

GRANTS OF PLAN-BASED AWARDS FOR FISCAL YEAR 2010

The following table sets forth certain information with respect to awards granted during the fiscal year ended December 31, 2010 to our named executive officers under our equity and non-equity incentive plans.

Name	Grant Date	Estimated Future Payouts Under Non-Equity Incentive Plan Awards(1)			All Other Stock Awards: Number of Shares of Stock or Units (#)(2)	All Other Option Awards: Number of Securities Underlying Options (#)	Exercise or Base Price of Option Awards (\$)	Grant Date Fair Value of Stock and Option Awards(3)
		Threshold (\$)	Target (\$)	Maximum (\$)				
Paolo Pucci	N/A		290,700	436,050				
	1/21/2010					225,000	467,438	
	7/15/2010					100,000	247,250	
	7/15/2010				390,000		1,614,600	
Peter S. Lawrence	N/A		160,746	241,119				
	1/21/2010					130,000	270,075	
Dr. Brian Schwartz	N/A		121,944	182,916				
	1/21/2010					90,000	186,975	
Dr. Thomas C.K. Chan	N/A		119,506	179,259				
	1/21/2010					90,000	186,975	

- (1) The threshold amount under the cash bonus program is zero. The target amount is based on the individual's current salary. The target represents 60% of Mr. Pucci's base salary, 40%, 35% and 35% of the base salaries of Mr. Lawrence, Dr. Schwartz and Dr. Chan respectively. The maximum amount is 150% of the target amount.
- (2) All Other Stock Awards consist of performance stock units granted under our Amended and Restated 1994 Equity Incentive Plan during 2010.
- (3) The dollar amount for performance stock units is calculated as the number of performance stock units granted times the market price on the date of award.

OUTSTANDING EQUITY AWARDS AT 2010 FISCAL YEAR-END

The following table sets forth certain information with respect to the value of all unexercised options previously awarded to our named executive officers as of December 31, 2010:

Name	Option Awards				Stock Awards	
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#)(1) Unexercisable	Option Exercise Price (\$)	Option Expiration Date	Number of Shares or Units of Stock that Have Not Vested	Market Value of Shares or Units of Stock that Have Not Vested(3)
Paolo Pucci(2)	375,000	125,000	\$ 3.95	6/9/2018		
		225,000	3.42	1/21/2020		
	25,000	75,000	4.14	7/15/2020	50,625	\$ 179,213
					390,000	\$ 1,614,600
Peter S. Lawrence	300,000		6.20	4/13/2016		
	37,500	12,500	6.16	1/16/2017		
	75,000	25,000	7.56	10/4/2017		
	100,000	100,000	4.75	1/17/2018		
		130,000	3.42	1/21/2020		
					56,250	\$ 199,125
Dr. Brian Schwartz	100,000	100,000	3.62	7/14/2018		
		90,000	3.42	1/21/2020		
					8,775	\$ 31,064
Dr. Thomas C.K. Chan	50,000		6.93	12/1/2015		
	37,500	12,500	6.16	1/16/2017		
	25,000	25,000	4.75	1/17/2018		
	50,000	50,000	2.86	11/21/2018		
		90,000	3.42	01/21/2020		
					15,000	\$ 53,100

(1) Except as otherwise noted, each option vests at the rate of one-fourth of the underlying shares annually beginning on the anniversary of the date of grant.

(2) In accordance with Mr. Pucci's employment agreement dated as of April 15, 2008, Mr. Pucci was granted an option to purchase 500,000 shares of the Company's Common Stock, of which 125,000 vested on June 9, 2008, and 125,000 vest on the anniversary of the date of grant for the following three years. On June 9, 2008, Mr. Pucci was also awarded 125,000 shares of restricted stock 50% of which vested immediately and the remaining shares vested on June 9, 2009.

In accordance with an amendment to Mr. Pucci's employment agreement dated as of July 15, 2010, Mr. Pucci was granted an option to purchase 100,000 shares of the Company's Common Stock, vesting annually over four years and 390,000 performance-based stock units, each of which represents a contingent right to receive one share of the Company's Common Stock, in tranches of 300,000 and 90,000 units that vest, respectively, upon the achievement of certain performance targets related to the development of the Company's products and the average price of the Company's Common Stock; provided that, if a deemed termination of Mr. Pucci's employment under the Employment Agreement occurs prior to achievement of such product development milestones, 300,000 of the performance-based stock units will vest if the average price of the Company's Common Stock meets or exceeds over a specified period a target price established by the Compensation Committee.

(3) Market Value is calculated as the number of shares of non vested stock awarded times the market price on the date of award.

OPTION EXERCISES AND STOCK VESTED IN FISCAL YEAR 2010

The table below sets forth certain information regarding stock option exercises and vested stock awards for the Company's executive officers during the last fiscal year.

Name	Option Awards		Stock Awards	
	Number of Securities Acquired on Exercise	Value Realized Upon Exercise (\$)	Number of Shares Acquired on Vesting	Value Realized on Vesting (\$)(1)
Paolo Pucci			16,875	\$ 59,569
Peter S. Lawrence			18,750	66,188
Dr. Brian Schwartz			2,925	10,325
Dr. Thomas C. K. Chan			5,000	17,650

(1) On January 20, 2009, Mr. Pucci, Mr. Lawrence, Dr. Schwartz and Dr. Chan were awarded 67,500, 75,000, 11,700 and 20,000 shares of restricted stock respectively, 25% of which vested on January 20, 2010 and 25% of which will vest on each anniversary of the date of award for the following three years. The fair market value of the Company's Common Stock was \$3.53 on January 20, 2010.

PAYMENTS UPON TERMINATION OR CHANGE IN CONTROL

The Company is party to employment agreements with four of its named executive officers. Each of the employment agreements provides for the payment of severance and change in control benefits. The following discussion and table provide information about the severance and change in control provisions of these employment agreements, and are qualified by reference to the full text of the agreements, as amended, each of which is on file with the SEC.

The following terms are used in the discussion below:

"Change in Control" means any of the following:

the acquisition by any person or entity of our Common Stock so that such person or entity holds or controls 50% or more of our outstanding Common Stock;

the merger or consolidation of the Company with or into any other entity in circumstances where the holders of the Company's outstanding shares of capital stock before the transaction do not retain stock representing a majority of the voting power of the surviving entity;

a sale of all or substantially all of the assets of the Company to a third party;

within any 24-month period, the election by the Company's stockholders of 20% or more of the Company's directors other than pursuant to nomination by management; or

the execution of an agreement approved by the Board providing for any of the above.

"Cause" means any of the following:

arbitrary, unreasonable, or willful failure of the executive to follow the reasonable instructions of the Chief Executive Officer (or, in the case of the Chief Executive Officer, the Board), or otherwise perform his or her duties;

willful misconduct by the executive that is materially injurious to the Company;

willful commission by the executive of an act constituting fraud with respect to the Company;

conviction of the executive for a felony under state or federal law; or

material breach by the executive of his or her obligations to the Company regarding confidentiality of information, rights in intellectual property.

Termination *"without Cause"* means any of the following occurrences:

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the Company terminates the executive's employment without Cause; or

the executive terminates his employment upon the occurrence of any of the following: (a) the Company substantially reduces or diminishes the executive's responsibilities or title without cause; (b) the Company reduces the executive's base salary or bonus target (other than in connection with a Company-wide decrease in salary or bonus, respectively); (c) the Company materially breaches any of its obligations to the executive under his or her employment agreement, and fails to cure such breach; (d) the Company relocates the executive's place of employment without his or her consent by a distance of more than fifty (50) miles; or (e) a successor in interest to the Company fails to assume the obligations of the employment agreement.

In the case of Mr. Pucci, Termination without Cause shall also occur if, following a Change in Control, the executive terminates his employment:

because the executive is unable to have direct responsibility for the Company's fully-integrated profit and loss statement (whether as a stand-alone entity or as a division or other business unit of some other acquiring entity); or

because of the exclusion from, or failure to appoint the executive to, the board of directors, or the executive committee, management committee or equivalent corporate managerial body of senior executives, of the acquiring company.

Employment Agreement with Paolo Pucci

Mr. Pucci's agreement, as amended, provides for continued employment until June 30, 2015. If Mr. Pucci is terminated without Cause, the Company will be required to pay Mr. Pucci an amount equal to twenty-four months of his base salary in effect at the time of termination, plus an amount equal to the total of bonuses paid to him with respect to the two years preceding the year in which he is terminated. These amounts will be paid in substantially equal installments according to the Company's normal payroll schedule during the twenty-four month period following termination. In addition, the Company will, at its expense, continue to provide Mr. Pucci with certain employee benefits for a period of twenty-four months from the date of termination. Finally, all of Mr. Pucci's unvested stock options and restricted stock that would have become exercisable or vested within one year from the termination date will immediately become exercisable or vested free of restrictions without regard to the original vesting schedule. If a Change in Control occurs, and the Company subsequently terminates Mr. Pucci's employment without Cause within a specified period, prior to achievement of the product development milestone, 300,000 of the performance-based stock units will vest if the average price of Common Stock meets or exceeds over a specified period a target price established by the Compensation Committee. Termination of Mr. Pucci's employment by reason of scheduled expiration of his employment agreement will not be considered as termination without Cause.

Employment Agreement with Peter S. Lawrence

Mr. Lawrence's employment agreement, as amended, provides that, in the event that his employment is terminated without Cause, he is entitled, subject to the execution of a general release of claims, to a lump sum severance payment equal to twelve months' base salary as of the date of termination, plus the average of the annual performance bonuses that he received in the preceding two years. In addition, 50% of any then unvested options that were granted at the time that the employment agreement was executed will become immediately exercisable on the termination date, and the Company will pay, for the twelve-month period following the date of termination, the cost of continuing the health and other employee benefits that Mr. Lawrence is entitled to receive under his employment agreement at the level in effect as of the termination date. The employment agreement further provides that, upon a Change in Control of the Company, all of any then unvested options held by Mr. Lawrence will become immediately exercisable.

Employment Agreement with Brian Schwartz

Dr. Schwartz's employment agreement provides that, in the event that his employment is terminated without Cause, he is entitled, subject to the execution of a general release of claims, to a severance payment equal to twelve months' base salary as of the date of termination, plus the average of the annual performance bonuses that he received in the preceding two years. This amount will be paid in substantially equal installments according to the Company's normal payroll schedule during the twelve-month period following termination. In addition, the Company will pay, for the 12-month period

following the date of termination, the cost of continuing the benefits that Dr. Schwartz is entitled to receive under his employment agreement at the level in effect as of the termination date. If Dr. Schwartz's employment is terminated without Cause within one year after a change in control of the Company, in addition to the severance benefits described above, 100% of any then unvested stock options will become immediately exercisable without regard to the original vesting schedule and any shares of Restricted Stock previously granted shall immediately be free and clear of any restrictions.

Employment Agreement with Thomas C. K. Chan

Dr. Chan's employment agreement provides that, in the event that his employment is terminated without Cause, he is entitled, subject to the execution of a general release of claims, to a severance payment equal to twelve months' base salary as of the date of termination, plus the average of the annual performance bonuses that he received in the preceding two years. This amount will be paid in substantially equal installments according to the Company's normal payroll schedule during the twelve-month period following termination. In addition, the Company will pay, for the twelve-month period following the date of termination, the cost of continuing the benefits that Dr. Chan is entitled to receive under his employment agreement at the level in effect as of the termination date. If Dr. Chan's employment is terminated without Cause within one year after a change in control of the Company, in addition to the severance benefits described above, 100% of any then unvested stock options will become immediately exercisable without regard to the original vesting schedule and any shares of Restricted Stock previously granted shall immediately be free and clear of any restrictions.

The following table sets forth information with respect to compensation that would have been payable to Mr. Pucci, Mr. Lawrence, Dr. Schwartz and Dr. Chan if the named executive officer's employment had been terminated without Cause as of December 31, 2010 immediately following a change in control of the Company:

Name	Cash Payment(1) (\$)	Equity Acceleration(2) (\$)	Benefits and Perquisites(3) (\$)	Total (\$)
Paolo Pucci	\$ 1,355,000	921,000	\$ 21,245	\$ 2,297,245
Peter S. Lawrence	548,888	430,500	23,408	1,002,796
Dr. Brian Schwartz	456,655	445,500	23,408	925,563
Dr. Tom C.K. Chan	430,950	399,000	15,757	845,707

- (1) For Mr. Pucci, the cash payment is calculated as the sum of an amount equal to two times his annual salary as of December 31, 2010, plus a bonus payment equal to the sum of the 2009 and 2010 bonus. For each of Mr. Lawrence, Dr. Schwartz and Dr. Chan, the cash payment is calculated as the sum of the executive's annual salary as of December 31, 2009, plus a bonus payment equal to 40%, 35% and 35%, respectively, of annual salary.
- (2) Reflects the aggregate intrinsic value of unvested stock options as of December 31, 2010. Aggregate intrinsic value represents the value for only those options which have an exercise price less than the market value of our stock on December 31, 2010.
- (3) Reflects the premiums for twelve months for group medical, dental, life and disability programs. Amounts are based on the premiums in effect at December 31, 2010.

SECURITIES AUTHORIZED FOR ISSUANCE UNDER EQUITY COMPENSATION PLANS

As of April 20, 2011 there were 7,363,179 shares subject to issuance upon exercise of outstanding options and there were no stock appreciation rights under all of our equity compensation plans referred to in the table below, at a weighted average exercise price of \$5.45, and with a weighted average remaining life of 6.9 years. There were a total of 604,353 shares subject to outstanding restricted stock and performance share units and other full value awards that remain subject to forfeiture. As of April 20, 2011, there were 1,382,014 shares available for future issuance under those plans.

The following table provides information as of December 31, 2010 regarding compensation plans (including individual compensation arrangements) under which our equity securities are authorized for issuance.

	(a)	(b)	(c)(1)
Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	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	6,355,827	\$ 5.29	2,730,438
Equity compensation plans not approved by security holders			
Total	6,355,827	\$ 5.29	2,730,438

(1) Column "(c)" includes 391,216 shares available for issuance under the ArQule, Inc. Amended and Restated 1996 Employee Stock Purchase Plan, 2,154,222 available for issuance under the ArQule, Inc. Amended and Restated 1994 Equity Incentive Plan and 185,000 available for issuance under the ArQule, Inc. Amended and Restated 1996 Director Stock Option Plan.

REPORT OF THE AUDIT COMMITTEE

In the course of its oversight of the Company's financial reporting process, the Audit Committee of the Board of Directors has:

reviewed and discussed with management the Company's audited financial statements for the fiscal year ended December 31, 2010;

discussed with our independent registered public accounting firm, PricewaterhouseCoopers LLP, matters required to be discussed under Public Company Accounting Oversight Board standards;

received the written disclosures and the letter from PricewaterhouseCoopers LLP pursuant to applicable requirements of the Public Company Accounting Oversight Board regarding the independent accountant's communications with the Audit Committee concerning independence;

discussed with PricewaterhouseCoopers LLP the firm's independence; and

considered whether the provision of non-audit services by PricewaterhouseCoopers LLP is compatible with maintaining independence.

Based on the foregoing review and discussions, the Audit Committee recommended to the Board of Directors that the Company's audited financial statements be included in the Company's Annual Report on Form 10-K for the year ended December 31, 2010 for filing with the SEC.

By the Audit Committee,

Timothy C. Barabe, Chairman

William G. Messenger

Patrick J. Zenner

**PROPOSAL 2 AMENDMENTS TO OUR AMENDED AND RESTATED
1994 EQUITY INCENTIVE PLAN**

General

We are asking our stockholders to approve the following amendments to our Amended and Restated 1994 Equity Incentive Plan, referred to as the Equity Plan:

to increase the aggregate number of shares of Common Stock that may be issued under the Equity Plan by 3,000,000 shares, from 12,500,000 to 15,500,000 shares;

to make the minimum vesting periods for awards of performance shares, restricted stock, stock units or other stock-based awards other than nonstatutory stock options, incentive stock options and stock appreciation rights made under the Equity Plan (i) three years for awards that vest based on continued service to the Company and (ii) one year for awards that vest based upon the accomplishment of performance criteria (where such performance criteria are determined by the Board, in its discretion);

to provide that no nonstatutory or incentive stock option shall have a term greater than ten (10) years measured from the date of award and that in the case of any incentive stock option granted to a 10% stockholder the term of the incentive stock option shall not exceed five years measured from the date the option is granted and that subject to Section 5(b) of the Equity Plan, the exercise price of nonstatutory or incentive stock options shall not be less than 100% of the fair market value per share of Common Stock on the date the award is made;

to provide that an award of stock appreciation rights shall have a term no greater than ten (10) years measured from the date of award and that subject to Section 5(b) of the Equity Plan, the base price of a stock appreciation right shall not be less than 100% of the fair market value per share of Common Stock on the date the award is made and that all awards of stock appreciation rights shall be settled in shares issuable upon the exercise of the stock appreciation rights;

to provide that to the extent that any award is forfeited, or any stock option or stock appreciation right terminates, expires or lapses without being exercised, the shares subject to such awards not delivered as a result thereof shall again be available for awards under the Equity Plan. Shares tendered or withheld to pay the exercise price of a stock option or to pay tax withholding for restricted stock will count against shares authorized under the Equity Plan but unissued and will not be added back to the shares available under the Equity Plan. When a stock appreciation right is exercised and settled for shares, the number of shares subject to the grant shall be counted against the number of shares available for issuance under the Equity Plan as one (1) share for every share subject thereto, regardless of the number of shares used to settle the stock appreciation right upon exercise; and

to provide that for any two (2) shares of Common Stock issued in connection with a full value award, i.e., performance shares, restricted stock, stock units or other stock-based awards, three (3) fewer shares of Common Stock will be available for issuance in connection with Options and future Stock Awards under Section 4(a) of the Equity Plan.

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The following summary of the material terms of the Equity Plan, as proposed to be amended, is qualified by reference to the full text of the Equity Plan. A copy of the Equity Plan showing the proposed amendments and other technical and editorial changes is attached to this Proxy Statement as Appendix A. You may also request and obtain a copy by writing to:

ArQule, Inc.
19 Presidential Way
Woburn, MA 01801
Attn.: William B. Boni
Vice President, Investor Relations/Corporate Communications.

The purpose of the Equity Plan is to attract and retain key employees and consultants and to provide an incentive for these persons to achieve long-range performance goals. Unless otherwise specified, capitalized terms used in this discussion have the meanings assigned to them in the Equity Plan. The Equity Plan currently permits us to authorize the granting of "Awards" to our employees and consultants in any of the following forms:

options to purchase shares of the Company's Common Stock, which may be nonstatutory stock options or incentive stock options under the Tax Code;

stock appreciation rights, which give the holder the right to receive the difference between the fair market value per share the Company's Common Stock on the date of exercise over the grant price;

performance shares upon the attainment of specified performance goals;

restricted stock, which is subject to restrictions on transferability and subject to forfeiture on terms set by the Compensation Committee;

stock units, which represent the right to receive shares of the Company's Common Stock in the future, subject to terms, restrictions, conditions, performance criteria, vesting requirements and payment rules as set by the Compensation Committee;

other stock-based awards in the discretion of the Compensation Committee, including convertible preferred stock, convertible debentures, exchangeable securities and Common Stock awards or options.

To date, we have granted only incentive stock options, non-statutory stock options, restricted stock and stock units under the Equity Plan. Currently, we plan to issue only stock options and restricted stock under the Equity Plan but wish to retain the flexibility to make Awards in other forms.

On March 14, 2011, our Board voted to amend the Equity Plan, subject to stockholder approval, in order to increase the aggregate number of shares of Common Stock that may be issued under the Equity Plan by 3,000,000 shares from 12,500,000 shares to 15,500,000 shares. If the stockholders approve the proposed amendment, Awards may be granted under the Equity Plan for up to 15,500,000 shares of Common Stock, subject to adjustment for stock splits and similar capital changes.

As of April 15, 2011, options to purchase an aggregate of 18,044,985 shares of Common Stock have been granted pursuant to the Equity Plan. Options to purchase 7,719,590 shares have been cancelled, options to purchase 3,477,641 shares have been exercised, and options to purchase 6,847,754 shares remain outstanding. 1,192,285 restricted shares of Common Stock have been awarded, of which 91,015 restricted shares have been cancelled, 888,919 shares have been issued as restrictions lapsed and 214,353 shares remain reserved for issuance if and when restrictions lapse. 390,000 performance-based stock units have been awarded and none have vested. This leaves 805,798 shares currently available for issuance of new options, restricted shares or stock units under the Equity Plan. The closing price of our Common Stock as reported by Nasdaq on April 15, 2011 was \$7.29.

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The Company does not believe that the proposed amendments to the Equity Plan would have affected the number or types of Awards that were awarded for performance in 2010. Future grants are not presently determinable, and it is not possible to predict the benefits or amounts that will be received by or allocated to particular individuals or groups for 2011. However, if the amendments are not approved the total amount of options awarded may be curtailed. All shares available for Awards under the Equity Plan can be used for Awards in the form of options, restricted stock, stock appreciation rights, performance shares, stock units, and other rights having a Common Stock element.

Administration and Eligibility

The selection of persons who receive Awards under the Equity Plan and the sizes and types of Awards are generally determined by the Compensation Committee. All of the Company's employees are eligible to participate in the Equity Plan. As of April 15, 2011, the Company had 113 employees. Consultants of the Company or any affiliate, who are capable of contributing significantly to the successful performance of the Company, are also eligible to participate in the Equity Plan, but only for Awards other than incentive stock options.

Currently, awards under the Equity Plan are either granted at the discretion of the Compensation Committee, with ratification of the Compensation Committee's actions by the Board or recommended by the Compensation Committee for approval by the Board. The Compensation Committee determines the recipients and, within the limits of the Equity Plan, establishes the terms and conditions of each Award. In the case of stock options, the terms and conditions include the exercise price, the form of payment of the exercise price, the number of shares subject to the option, and the dates at which the option becomes exercisable. However, the exercise price of any incentive stock option granted under the Equity Plan may not be less than the fair market value of the Common Stock on the date of grant and the term of any such option cannot be greater than 10 years. The Compensation Committee determines the exercise price of any non-statutory stock option. In the case of restricted stock, the terms and conditions include the restrictions on ownership and the dates upon which the restrictions lapse.

If the proposed amendments to the Equity Plan are approved by stockholders, the exercise price of any stock option (nonstatutory and incentive) and the base price of any stock appreciation right awarded granted under the Equity Plan will not be less than 100% of the fair market value of the Common Stock on the date of grant and the term of any such option or stock appreciation right will not be greater than 10 years.

Subject to certain limitations, the Compensation Committee or the Board may delegate to one or more of our executive officers the power to make Awards to participants who are not subject to Section 16 of the Exchange Act or "covered employees" for purposes of Section 162(m) of the Tax Code. In January 2011, the Board granted such authority to Mr. Pucci and Mr. Lawrence.

Federal Income Tax Considerations

The following discussion briefly summarizes certain federal income tax consequences of Awards under the Equity Plan and does not attempt to describe all possible federal or any foreign, state, local, or other tax consequences related to Awards or tax consequences based upon particular circumstances.

Incentive Stock Options. Generally, a participant who is granted an incentive stock option will not recognize income on the grant or exercise of the option. However, the difference between the exercise price and the fair market value of the stock on the date of exercise is an adjustment item for purposes of the alternative minimum tax. If a participant does not exercise an incentive stock option within certain specified periods after termination of employment, the participant will recognize ordinary income on the exercise of the incentive stock option in the same manner as on the exercise of a non-statutory stock option, as described below.

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Non-statutory Stock Options. A participant generally is not required to recognize income on the grant of a non-statutory stock option. Generally, ordinary income is instead required to be recognized on the date the non-statutory stock option is exercised. In general, the amount of ordinary income required to be recognized is the excess, if any, of the fair market value of the shares of Common Stock on the date of exercise over the exercise price.

Restricted Stock. Unless a participant who is granted shares of restricted stock makes an election under Section 83(b) of the Tax Code as described below, the participant generally is not required to recognize ordinary income on the award of restricted stock. Instead, on the date that the shares vest (i.e. the shares become transferable or no longer subject to a substantial risk of forfeiture), the participant will be required to recognize ordinary income in an amount equal to the excess, if any, of the fair market value of the shares of restricted stock on such date over the amount, if any, paid for such shares. If a participant makes a Section 83(b) election to recognize ordinary income on the date the shares of restricted stock are awarded, the amount of ordinary income required to be recognized is an amount equal to the excess, if any, of the fair market value of the shares on the date of award over the amount, if any, paid for such shares. In such case, the participant will not be required to recognize additional ordinary income when the shares vest.

Stock Appreciation Rights, Performance Shares, Stock Units and Other Stock Based Awards. A participant generally is not required to recognize income on the grant of a stock appreciation right, an award of performance shares, an award of stock units, or any other stock based award. Generally, ordinary income is instead required to be recognized upon the issuance of shares and/or cash pursuant to the terms of the award. In general, the amount of ordinary income required to be recognized is the excess, if any, of the amount of cash and the fair market value of any shares received, over the amount, if any, paid for the Award.

Gain or Loss on Sale or Exchange of Shares. In general, gain or loss from the sale or exchange of shares of Common Stock granted or awarded under the Equity Plan will be treated as capital gain or loss, if the shares are held as capital assets at the time of the sale or exchange. However, if certain holding period requirements are not satisfied at the time of a sale or exchange of shares of Common Stock acquired upon exercise of an incentive stock option (a "disqualifying disposition"), a participant generally will be required to recognize ordinary income upon such disposition.

Deductibility by Company. The Company generally is not allowed a deduction in connection with the grant or exercise of an incentive stock option. However, if a participant is required to recognize ordinary income as a result of a disqualifying disposition, the Company generally will be entitled to a deduction equal to the amount of ordinary income so recognized. In general, for a non-statutory stock option (including an incentive stock option that is treated as a non-statutory stock option, as described above), a restricted stock award, a stock appreciation right, a performance shares award, a stock units award, or any other stock-based award, the Company will be allowed to deduct the amount of ordinary income recognized by the participant, provided certain income tax reporting requirements are satisfied.

Performance-Based Compensation. Subject to certain exceptions, Section 162(m) of the Tax Code disallows federal income tax deductions for compensation paid by a publicly-held corporation to certain executives to the extent the amount paid to an executive exceeds \$1 million for the taxable year. The Equity Plan has been designed to allow the grant of awards that qualify under an exception to the deduction limit of Section 162(m) for "performance-based compensation."

Tax Rules Affecting Nonqualified Deferred Compensation Plans. Section 409A of the Tax Code imposes tax rules that apply to "nonqualified deferred compensation plans." Failure to comply with, or to qualify for an exemption from, the rules with respect to an award could result in significant adverse tax results to the award recipient including immediate taxation upon vesting, an additional income tax of 20 percent of the amount of income so recognized, plus a tax in the nature of interest. The Equity

Plan is intended to comply with, or qualify for an exemption from, Section 409A of the Tax Code to the extent applicable.

Parachute Payments. Where payments to certain persons that are contingent on a change in control exceed limits specified in the Tax Code, the person generally is liable for a 20 percent excise tax on, and the corporation or other entity making the payment generally is not entitled to any deduction for, a specified portion of such payments. Any award under which vesting is accelerated by a change in control of the Company, would be relevant in determining whether the excise tax and deduction disallowance rules would be triggered.

Vote Required

The affirmative vote of a majority of the total votes cast by the stockholders present at the meeting, in person or by proxy, and entitled to vote on this proposal is needed to approve the amendments to the Equity Plan. If you submit a proxy without direction as to a vote on this matter, your proxy will be treated as a vote "FOR" this proposal. Broker non-votes will not be treated as votes cast and will have no effect on the outcome of the vote on this proposal. Abstentions will be treated as a vote against this proposal.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THIS PROPOSAL.

**PROPOSAL 3 APPROVAL OF AN AMENDMENT TO OUR AMENDED AND RESTATED
1996 EMPLOYEE STOCK PURCHASE PLAN**

General

We are soliciting approval of an amendment to our Amended and Restated 1996 Employee Stock Purchase Plan (the "Purchase Plan") to increase the number of shares of Common Stock available for purchase by participants in such plan by 400,000 from 2,000,000 to 2,400,000 shares of Common Stock.

On January 24, 2011, our Board voted to amend the Purchase Plan, subject to stockholder approval, to increase the number of shares of Common Stock available for purchase by participants in such plan by 400,000 shares from 2,000,000 to 2,400,000 shares of Common Stock. If the proposed amendment is approved, the Purchase Plan would authorize the grant of rights to purchase a maximum of 2,400,000 shares of Common Stock, subject to adjustment for stock splits and similar capital changes, to eligible employees.

The following summary of the material terms of the Purchase Plan, as amended, is qualified by reference to the full text of the Purchase Plan (attached as Appendix B). You may also obtain a copy by writing to:

ArQule, Inc.
19 Presidential Way
Woburn, MA 01801
Attn.: William B. Boni
Vice President, Investor Relations/Corporate Communications.

Unless otherwise specified, capitalized terms used in this discussion have the meanings assigned to them in the Purchase Plan.

As of April 15, 2011, approximately 113 employees were eligible to participate in the Purchase Plan and 1,608,784 shares had been purchased under the Purchase Plan since its inception. The closing price of our Common Stock as reported by Nasdaq on April 15, 2011 was \$7.29.

The number of shares purchased in Offerings (as defined below) under the Purchase Plan is generally determined by both the number of rights to purchase shares granted by the Board, the number of participants and the number of shares the participants wish to purchase. Such future grants are not presently determinable, and it is not possible to predict the benefits or amounts that will be received by or allocated to particular individuals or groups in 2011.

The Company believes that the proposed amendment to the Purchase Plan would not have affected the number of rights to purchase Common Stock that were granted under the Purchase Plan in 2011. However, if the amendment is not approved, the total amount of rights granted in the future may be curtailed, particularly if the number of employees increases.

Administration and Eligibility

The Purchase Plan is intended to qualify as an "employee stock purchase plan" under Section 423 of the Tax Code. The Compensation Committee, in its discretion, grants rights to purchase shares of Common Stock under the Purchase Plan pursuant to one or more offerings ("Offerings"). The Compensation Committee determines the frequency and duration of individual Offerings under the Purchase Plan and the date(s) when stock may be purchased. All of our full-time employees are eligible to participate in the Purchase Plan. For purposes of the preceding sentence, "full-time employees" are defined as employees who work at least 20 hours a week and have been employed with us for at least five months in the calendar year in which an Offering occurs or in the calendar year immediately preceding such year. Eligible employees participate voluntarily and may withdraw from any Offering at

any time before stock is purchased. Participation terminates automatically upon termination of employment for any reason.

The purchase price per share of Common Stock in an Offering, unless the Compensation Committee determines a higher price, is 85% of the lower of the fair market value of Common Stock on the first day of an Offering period or on the last day of such offering period, i.e., the date the shares are purchased. The purchase price may be paid through regular payroll deductions, lump sum cash payments or a combination of both, as determined by the Compensation Committee.

In accordance with Section 423 of the Tax Code, no employee may participate in an offering under the Purchase Plan if, immediately after the right to acquire shares of Common Stock in the offering is granted, the employee would own 5% or more of the voting stock or value of the Company (including Common Stock that may be purchased through subscriptions under the Purchase Plan or any other options), nor may an employee buy more than \$25,000 worth of stock (determined by the fair market value of the Common Stock at the time the right to purchase the Common Stock is granted) through the Purchase Plan in any calendar year. In addition, each employee's purchases under the Purchase Plan in any calendar year cannot exceed 15% of the employee's annual rate of compensation. The Purchase Plan may be amended or terminated at any time by the Board, subject to any necessary approval by stockholders.

Federal Income Tax Considerations

General.

The following discussion briefly summarizes certain federal income tax consequences of participation in the Purchase Plan and does not attempt to describe all possible federal or any foreign, state, local or other tax consequences of such participation or tax consequences based upon particular circumstances. Moreover, statutory provisions are technical and subject to change, as are their interpretations, and their application may vary in individual circumstances.

Tax Consequences to Participants.

The Purchase Plan is intended to qualify as an "employee stock purchase plan" under Section 423 of the Tax Code. A participant under the Purchase Plan will be taxed on amounts withheld for the purchase of shares as if such amounts were actually received by the participant. No other income with respect to the shares purchased under the Purchase Plan will be recognized until disposition of such shares or the participant's death. The tax consequences upon disposition generally depend on the period that the purchased shares are held prior to disposition.

If a participant disposes of shares purchased under the Purchase Plan more than two years after the date of grant and more than one year after the date on which the shares are purchased or in the event of such participant's death, the participant will recognize ordinary income upon the disposition of such shares equal to the lesser of (i) the amount by which the fair market value of such shares on the date of grant exceeded the actual purchase price paid by the participant for such shares and (ii) the amount by which the fair market value of such shares at the time of disposition exceeded the actual purchase price paid by the participant for such shares. In addition, the participant will generally recognize capital gain (or loss) in the year of disposition equal to the amount by which proceeds from the disposition of the shares exceed (or are less than) than the sum of the actual purchase price and the amount of ordinary income recognized by the participant. The date of grant will be the first day of the Offering if the terms of the Offering either (i) designates the maximum number of shares that may be purchased by each employee during the Offering or (ii) requires the application of a formula to establish, on the first day of the Offering the maximum number of shares that may be purchased by each employee during the Offering. If the terms of the Offering do not include (i) or (ii) above, the date the shares are purchased will be the date of grant.

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If a participant disposes of shares purchased under the Purchase Plan prior to the end of the holding period described above (a "disqualifying disposition"), he or she will be required to recognize, in the year of the disqualifying disposition, ordinary income equal to the excess of the fair market value of the shares on the date of purchase over the actual purchase price of such shares. In addition, the participant will generally recognize capital gain (or loss) equal to the amount by which proceeds from the disposition of the shares exceed (or are less than) the fair market value of the shares on the date of purchase.

Tax Consequences to the Company.

The Company will not be allowed a deduction for federal income tax purposes if a participant holds shares purchased under the Purchase Plan for the prescribed holding period described above or dies while holding the shares. However, if a participant makes a disqualifying disposition, the Company will generally be entitled to a deduction for federal income tax purposes equal to the amount recognized as ordinary income by the participant upon such disposition, except to the extent such deduction is limited by applicable provisions of the Tax Code.

Vote Required

The affirmative vote of a majority of the total votes cast by the stockholders present at the meeting, in person or by proxy, and entitled to vote on this proposal is necessary for approval of the amendment to the Purchase Plan. If you submit a proxy without direction as to a vote on this matter, the proxy will be voted "FOR" the proposal. Abstentions will have the effect of a vote against this proposal. Broker non-votes will not be treated as votes cast and will have no effect on the outcome of the vote on this proposal.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THIS PROPOSAL.

**PROPOSAL 4 APPROVAL OF AMENDMENTS TO OUR AMENDED AND RESTATED
1996 DIRECTOR STOCK OPTION PLAN**

General

We are soliciting approval of an amendment to our Amended and Restated 1996 Director Stock Option Plan (the "Director Plan"), to increase the maximum number of shares of Common Stock available for awards made under the Plan by 200,000 shares from 750,500 shares to 950,500 shares.

On March 14, 2011, our Board voted to amend the Director Plan, subject to stockholder approval, to increase the aggregate number of shares of Common Stock issuable under the Director Plan by 200,000 shares from 750,500 shares to 950,500 shares. If the proposed amendment is approved, the Director Plan would authorize the grant of non-statutory stock options for the purchase of a maximum of 950,500 shares of Common Stock, subject to adjustment for stock splits and similar capital changes, to eligible directors as defined below.

The following summary of the material terms of the Director Plan, as proposed to be amended, is qualified by reference to the full text of the Director Plan. A copy of the Director Plan showing the proposed amendment and other technical and editorial changes is attached to this Proxy Statement as Appendix C. You may also obtain a copy by writing to:

ArQule, Inc.
19 Presidential Way
Woburn, MA 01801
Attn.: William B. Boni
Vice President, Investor Relations/Corporate Communications.

Unless otherwise specified, capitalized terms used in this discussion have the meanings assigned to them in the Director Plan.

The purpose of the Director Plan is to attract and retain qualified non-employee directors to serve on our Board and to encourage stock ownership of our Common Stock by such directors so as to provide additional incentives to promote our success. The purpose of the amendment is to ensure that adequate shares of Common Stock are available to issue to eligible directors in the future.

We last increased the number of shares of Common Stock available under the Director Plan in May 2007. As of April 15, 2011, options to purchase an aggregate of 717,500 shares of Common Stock had been granted under the Director Plan, leaving 185,000 shares available for future grants. The latter amount reflects cancellation of lapsed and relinquished options to purchase 153,000 shares of Common Stock.

We granted an aggregate of 85,000 options under the Director Plan during 2010. As grants under the Director Plan are automatic in prescribed amounts, the amendment would not have affected the number of options granted pursuant to the Director Plan in 2010. However, if the amendment is not approved, the total amount of options granted in the future may be curtailed, particularly if the number of directors increases.

Administration and Eligibility

All of our non-employee directors, currently six directors, are eligible to participate in the Director Plan. Pursuant to the Director Plan, an option to purchase 30,000 shares of Common Stock is automatically granted to each non-employee director (other than the Chairman) at the time that he or she is first elected or appointed to the board of directors. This initial option becomes exercisable as to 10,000 shares on the date of the Company's next three annual meeting of stockholders following the date of grant. In addition, at each annual meeting of stockholders, each eligible director (other than the Chairman) serving as a member of the board of directors prior to and immediately after such

annual meeting is automatically granted an immediately exercisable option to purchase 15,000 shares of Common Stock (whether or not the director is a nominee for election at such annual meeting).

Upon the initial election of a non-employee director as Chairman of the Board, such non-employee director will be automatically granted an option to purchase 25,000 shares of Common Stock, which will become exercisable as to 8,334 shares on the date of the Company's next annual meeting of stockholders following the date of grant and as to 8,333 shares on the date of each of the next two annual meetings of stockholders. In addition, at each annual meeting of stockholders, such eligible director serving as Chairman of the Board prior to and immediately after such annual meeting will be automatically granted an immediately exercisable option to purchase 25,000 shares of Common Stock (whether or not the Chairman is a nominee for election at such annual meeting).

The exercise price of options granted under the Director Plan, unless otherwise determined by the Board, is the closing price of our Common Stock reported by Nasdaq on the date of grant, and the term of each option granted under the Director Plan is ten years. The closing price of our Common Stock as reported by Nasdaq on April 15, 2011 was \$7.29.

Currently, the Director Plan authorizes the grant of nonstatutory stock options for the purchase of up to a maximum of, 750,500 shares of Common Stock, subject to adjustment for stock splits and similar capital changes, to eligible directors as discussed above.

All questions of interpretation with respect to the Director Plan and options granted under it are determined by the Board or a committee appointed by the board of directors, currently the Compensation Committee.

Federal Income Tax Considerations

General.

The following discussion briefly summarizes certain federal income tax aspects of nonstatutory options under the Director Plan. It does not attempt to describe all possible federal or any foreign, state, local or other tax consequences related to nonstatutory options or tax consequences based on particular circumstances.

Nonstatutory Stock Options.

A grantee generally is not required to recognize income on the grant of a nonstatutory stock option. Instead, ordinary income generally is required to be recognized on the date the nonstatutory stock option is exercised. In general, the amount of ordinary income required to be recognized in the case of a nonstatutory stock option is an amount equal to the excess, if any, of the fair market value of the shares on the exercise date over the exercise price.

Gain or Loss on Sale or Exchange of Director Plan Shares.

In general, gain or loss from the sale or exchange of shares granted under the Director Plan will be treated as capital gain or loss, provided that the shares are held as capital assets at the time of the sale or exchange.

Deductibility by Company.

In general, in the case of a nonstatutory stock option, the Company will be allowed a deduction in an amount equal to the amount of ordinary income recognized by the grantee, provided that certain income tax reporting requirements are satisfied.

Parachute Payments.

Where payments to certain persons that are contingent on a change in control exceed limits specified in the Tax Code, the person generally is liable for a 20 percent excise tax on, and the corporation or other entity making the payment generally is not entitled to any deduction for, a specified portion of such payments. In the event that the vesting of nonstatutory stock options under the Director Plan is accelerated by a change in control of the Company, such accelerated vesting would be relevant in determining whether the excise tax and deduction disallowance rules would be triggered.

Tax Rules Affecting Nonqualified Deferred Compensation Plans.

Section 409A of the Tax Code imposes tax rules that apply to "nonqualified deferred compensation plans." Failure to comply with, or to qualify for an exemption from, the new rules with respect to an option grant could result in significant adverse tax results to the grantee including immediate taxation upon vesting, an additional income tax of 20 percent of the amount of income so recognized, plus a special interest payment. The Director Plan is intended to comply with Section 409A of the Tax Code to the extent applicable, and the Board will administer and interpret the Director Plan and grants accordingly.

Vote Required

The affirmative vote of a majority of the total votes cast by the stockholders present at the meeting, in person or by proxy, and entitled to vote on this proposal is necessary to approve the proposed amendment to the Director Plan. If you submit a proxy without direction as to a vote on this matter, the proxy will be voted "FOR" this proposal. Abstentions will have the effect of a vote against this proposal. Broker non-votes will not be treated as votes cast and will have no effect on the outcome of the vote on this proposal.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THIS PROPOSAL.

PROPOSAL 5 RATIFICATION OF SELECTION OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We are asking our stockholders to ratify the selection by our Audit Committee of PricewaterhouseCoopers LLP, an independent registered public accounting firm, to audit our financial statements for the fiscal year ending December 31, 2011. PricewaterhouseCoopers LLP has audited our financial statements since our inception.

The Audit Committee of our Board selected PricewaterhouseCoopers LLP to audit our financial statements for the year ending December 31, 2011. We expect that representatives of PricewaterhouseCoopers LLP will attend our 2011 Annual Meeting of Stockholders to respond to appropriate questions. They will also have the opportunity to make a statement if they so desire. PricewaterhouseCoopers LLP has no direct or indirect financial interest in the Company or in any of its subsidiaries, nor has it had any connection with the Company or any of its subsidiaries in the capacity of promoter, underwriter, voting trustee, director, officer or employee.

The following table summarizes fees for services provided by PricewaterhouseCoopers LLP to us in 2010 and 2009:

	2010	2009
Audit Fees	\$ 420,399	\$ 400,000
Audit-Related Fees	11,900	
Tax Fees		
All Other Fees		
Total	\$ 432,299	\$ 400,000

"Audit Fees" are fees for the audit of our consolidated financial statements and internal controls over financial reporting, included in our Annual Reports on Form 10-K, the review of interim financial statements included in our Quarterly Reports on Form 10-Q and other services normally associated with statutory and regulatory filings or engagements.

"Audit-Related Fees" are fees for assurance and related services that are reasonably related to the performance of the audit and the review of ArQule's financial statements and which are not reported under "Audit Fees." In 2010, these services related to accounting for executive compensation.

The Audit Committee pre-approves each proposed service by PricewaterhouseCoopers LLP on a case-by-case basis. The Audit Committee does not have any pre-approval policies or procedures for PricewaterhouseCoopers LLP's services. The Audit Committee approved 100% of the audit and audit-related services PricewaterhouseCoopers LLP provided to us in 2010 and 2009.

Vote Required

The affirmative vote of a majority of the total votes cast by the stockholders present at the meeting, in person or by proxy, and entitled to vote on this proposal is necessary to ratify the selection of PricewaterhouseCoopers LLP to audit our financial statements. If you submit a proxy without direction as to a vote on this matter, your proxy will be treated as a vote "FOR" this proposal. Abstentions will be treated as votes against this proposal. Broker non-votes will not be treated as votes cast and will have no effect on the outcome of the vote on this proposal.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THIS PROPOSAL.

**PROPOSAL 6 ADVISORY VOTE ON APPROVAL OF THE COMPENSATION OF
THE COMPANY'S NAMED EXECUTIVE OFFICERS**

The proxy rules, which were recently amended in accordance with the Dodd-Frank Wall Street Reform and Consumer Protection Act (the "Dodd-Frank Act"), permit our stockholders to cast an advisory vote on the compensation of our named executive officers as described in this proxy statement. Furthermore, our Board recognizes that stockholders have a legitimate interest in executive compensation matters and a growing interest in voicing their approval on our policies with respect to such matters.

Accordingly, this proposal gives you, as a stockholder, the opportunity to endorse or not endorse our overall compensation programs and policies relating to our named executive officers, as described in detail in the Compensation Discussion and Analysis, the Summary Compensation Table and related compensation tables (and accompanying narrative disclosures) contained in this proxy statement, by voting for or against the compensation of our named executive officers.

Your vote will not directly affect or otherwise limit any compensation or award arrangements that have already been granted to any of our named executive officers. Because your vote is advisory, it will not be binding on the Board. However, our Compensation Committee will take into account the outcome of the vote when considering future executive compensation arrangements.

We believe that our compensation policies and procedures support our business strategy by rewarding successful achievement of specific business goals, as well as our operating and financial results. Furthermore, we believe that our compensation policies and procedures, which provide performance-based incentives to maximize stockholder value, are strongly aligned with the long-term interests of our stockholders.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" THIS PROPOSAL.

**PROPOSAL 7 ADVISORY VOTE REGARDING
THE FREQUENCY OF STOCKHOLDER VOTES ON EXECUTIVE COMPENSATION**

In compliance with the Dodd-Frank Act, stockholders are invited to express their views on how frequently the advisory vote on executive compensation described in Proposal 6 should occur. Stockholders can advise the Board on whether such vote should occur every year, every two years or every three years, or they may abstain from voting.

This is an advisory vote, and as such is not binding on the Company. However, the Board will take the results of the vote into account in deciding when to call for the next advisory vote on the Company's executive compensation. Because this is a non-binding advisory vote, the Board may decide that it is in the best interests of the Company and its stockholders to hold an advisory vote on executive compensation more or less frequently than the option preferred by stockholders.

The Board recommends that the non-binding advisory vote on executive compensation be held every year. The Board recognizes that stockholders want the ability to voice their views on compensation for our named executive officers from time-to-time. The Board believes that it is in the Company's best interest and in the best interest of its stockholders that a vote on the frequency of stockholder votes on executive compensation be held every year.

OUR BOARD OF DIRECTORS RECOMMENDS A VOTE FOR "EVERY YEAR" ON THIS PROPOSAL.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

There is no amount due to or from a related party as of December 31, 2010 and there was no revenue from a related party in 2010.

SHARE OWNERSHIP OF CERTAIN BENEFICIAL OWNERS

The following table and footnotes set forth certain information regarding the beneficial ownership of the Company's Common Stock by persons known by us to be beneficial owners of more than 5% of our Common Stock.

We had approximately 53,115,658 shares of Common Stock outstanding on April 15, 2011.

Name	Common Stock Owned	Options to Purchase Common Stock	Total Stock and Stock-based Holdings	Percent of Class
BlackRock, Inc.(1) 55 East 52nd Street New York, NY 10055	4,515,519		4,515,519	10.05%
Franklin Resources, Inc.(2) One Franklin Parkway San Mateo, CA 94403	3,409,200		3,409,200	7.6%
FMR LLC(3) 82 Devonshire Street, Boston, MA 02109	3,213,500		3,213,500	7.149%

(1) These shares are beneficially owned by BlackRock, Inc. These shares are based on the Schedule 13G Amendment it filed with the SEC on March 11, 2011. The percentage of ownership is calculated as of the filing date of the Schedule 13G.

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- (2) These shares are beneficially owned by Franklin Resources, Inc. based on the Schedule 13G it filed with the SEC on February 2, 2011. The percentage of ownership is calculated as of the filing date of the Schedule 13G Amendment.
- (3) These shares are beneficially owned by FMR LLC based on the Schedule 13G Amendment it filed with the SEC on February 14, 2011. The percentage of ownership is calculated as of the filing date of the Schedule 13G Amendment.

SHARE OWNERSHIP OF MANAGEMENT

The following table and footnotes set forth certain information regarding the beneficial ownership of the Company's Common Stock as of April 15, 2011 by (i) our directors and nominees for election as director, (ii) our named executive officers, and (iii) all current directors and named executive officers and as a group. Shares of Common Stock underlying options include shares for which options are currently exercisable or will become exercisable within 60 days after April 15, 2011. Those options are deemed to be outstanding for computing the percentage of the person or group holding such options, but are not deemed outstanding for computing the percentage of any other person or group.

Directors, Nominees and Executive Officers(1)	Common Stock Owned	Options to Purchase Common Stock	Total Stock and Stock-based Holdings	Percent of Class
Timothy C. Barabe(2)	37,094	81,000	118,094	*
Susan L. Kelley		10,000	10,000	*
Ronald M. Lindsay	20,000	65,000	85,000	*
Michael D. Loberg	38,651	65,000	103,651	*
William G. Messenger	1,500	70,000	71,500	*
Nancy A. Simonian(3)		65,000	65,000	*
Patrick J. Zenner	26,900	107,500	134,400	*
Thomas C. K. Chan	10,375	210,000	220,375	*
Peter S. Lawrence	40,384	607,500	647,884	1.2%
Paolo Pucci	180,976	456,250	637,226	1.2%
Brian Schwartz	23,539	122,500	146,039	*
All current directors and executive officers as a group (10 persons)	379,419	1,849,750	2,229,169	4.2%

*

Indicates less than 1%.

(1)

The persons named in the table have sole voting and investment power with respect to the shares beneficially owned by them, except as noted below or as otherwise provided under community property laws. Total Stock and Stock-based Holdings numbers include shares of Common Stock issuable pursuant to outstanding options that may be exercised within 60 days after April 15, 2011.

(2)

Mr. Barabe disclaims any direct, indirect or beneficial ownership of 420 shares of Common Stock owned by his spouse.

(3)

Dr. Simonian resigned from the Board, effective March 31, 2011.

SECTION 16(a) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE

Our executive officers and directors are required under Section 16(a) of the Exchange Act to file reports of ownership and changes in ownership of our securities with the SEC. Copies of those reports must also be furnished to us, unless we and the person reporting have agreed that we will file on his or her behalf pursuant to a power of attorney.

We file reports required under Section 16(a) on behalf of all our directors and officers pursuant to powers of attorney. Based solely on a review of the copies of reports furnished to, or filed by, us and written representations that no other reports were required, we believe that during 2010, our executive officers and directors complied with all applicable Section 16(a) filing requirements.

STOCKHOLDER PROPOSALS

If you wish to bring business before the 2012 Annual Meeting of Stockholders and have your proposal included in the proxy statement and card for that meeting, you must give written notice to ArQule by December 31, 2011, provided that the 2012 Annual Meeting of Stockholders is within 30 days of June 1, 2012 (January 3, 2012 being the date 120 days before the anniversary of the date the 2011 proxy statement was mailed to stockholders).

If you intend to bring such a proposal at the 2012 Annual Meeting outside the SEC's stockholder proposal rules, or wish to propose a director nomination at the 2012 Annual Meeting, you must provide written notice to ArQule of such proposal or nomination by March 18, 2012 (the date 75 days before the anniversary of the 2011 Annual Meeting).

Notices of stockholder proposals and nominations should be given in writing to:

Peter S. Lawrence
President and Chief Operating Officer
ArQule, Inc.
19 Presidential Way
Woburn, Massachusetts, 01801

OTHER MATTERS

Our Board does not know of any business to come before the Annual Meeting other than the matters described in the Notice of Annual Meeting. If other business is properly presented for consideration at the meeting, the enclosed proxy authorizes the persons named therein to vote the shares represented thereby in their discretion.

A copy of our Annual Report on Form 10-K for the year ended December 31, 2010, as filed with the SEC on March 2, 2011, accompanies this Proxy Statement. Any exhibit to Form 10-K is also available upon written request at a reasonable charge for copying and mailing. Written requests should be addressed to:

William B. Boni
Vice President, Investor Relations/Corporate Communications
ArQule, Inc.
19 Presidential Way
Woburn, Massachusetts 01801

Copies of these documents may also be accessed electronically by means of the SEC's website at <http://www.sec.gov> and <http://www.proxyvote.com>. The Annual Report on Form 10-K is not part of the proxy solicitation materials.

ARQULE, INC.
Amended and Restated
1994 Equity Incentive Plan

Section 1. *Purpose*

The purpose of the Plan is to attract and retain key employees and consultants of the Company and its Affiliates, to provide an incentive for them to achieve long-range performance goals, and to enable them to participate in the long-term growth of the Company. Independent contractors and leased employees of the Company shall not be eligible to participate in the Plan notwithstanding that they may be deemed to be "common law" employees of the Company for other purposes.

Section 2. *Definitions*

"Affiliate" means any business entity that directly, or indirectly through one or more intermediaries, controls, is controlled by or is under common control with the Company. For purposes hereof, "Control" (and with correlative meanings, the terms "controlled by" and "under common control with") shall mean the possession of the power to direct or cause the direction of the management and policies of the Company, whether through the ownership of voting stock, by contract or otherwise. In the case of a corporation "control" shall mean, among other things, the direct or indirect ownership of more than fifty percent (50%) of its outstanding voting stock. In the case of an Incentive Stock Option, the term "Affiliate" shall only include each entity which is either a "parent corporation" or a "subsidiary corporation," both as defined in Section 424 of the Code, with respect to the Company (and any entity which becomes such a "parent corporation" or "subsidiary corporation" after the adoption of the Plan).

"Award" means any Option, Stock Appreciation Right, Performance Share, Restricted Stock, Stock Unit or Other Stock-Based Award awarded under the Plan or any Award previously granted under the 1994 Equity Incentive Plan of the Company or the Amended and Restated 1994 Equity Incentive Plan of the Company as in effect prior to date this Plan was adopted by the Board of Directors.

"Board" means the Board of Directors of the Company.

"Code" means the Internal Revenue Code of 1986, as amended from time to time, and any successor to such Code.

"Committee" means a committee of not fewer than two members of the Board appointed by the Board to administer the Plan. If a Committee is authorized to grant Options to a Reporting Person or a "covered employee" within the meaning of Section 162(m) of the Code, each member shall be a "non-employee director" or the equivalent within the meaning of Rule 16b-3 under the Securities Exchange Act of 1934 and an "outside director" or the equivalent within the meaning of Section 162(m) of the Code, respectively. Until such committee is appointed, "Committee" means the Board.

"Common Stock" or "Stock" means the Common Stock, \$0.01 par value, of the Company.

"Company" means ArQule, Inc.

"Designated Beneficiary" means the beneficiary designated by a Participant, in a manner determined by the Committee, to receive amounts due or exercise rights of the Participant in the event of the Participant's death. In the absence of an effective designation of a beneficiary by a Participant, "Designated Beneficiary" shall mean (i) the Participant's estate, if such amounts or rights are, under applicable law, deemed to be part of the Participant's estate, or (ii) such person who acquired the right to receive amounts due or exercise rights of the Participant by bequest or inheritance.

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"Effective Date" means October 28, 1994.

"Fair Market Value" means, with respect to a share of Common Stock shall be its closing price on the NASDAQ National Market on the date an Award is made and if the Company's Common Stock shall cease to be listed or any other property security, constitutes a part of the Award the fair market value of such property thereof shall be as determined by the Committee in good faith ~~or~~ in the manner established by the Committee from time to time.

"Full Value Award" means any Award of Performance Shares, Restricted Stock, or Stock Units or any combination thereof and any Other Stock-Based Award other than an Option or Stock Appreciation Right awarded under the Plan.

"Incentive Stock Option" means an option to purchase shares of Common Stock awarded to a Participant under Section 6 that is intended to meet the requirements of Section 422 of the Code or any successor provision and is designated by the Committee as such.

"Nonstatutory Stock Option" means an option to purchase shares of Common Stock awarded to a Participant under Section 6 that is not intended to be an Incentive Stock Option.

"Option" means an Incentive Stock Option or a Nonstatutory Stock Option.

"Other Stock-Based Award" means an Award, other than an Option, Stock Appreciation Right, Performance Share, Restricted Stock or Stock Unit, having a Common Stock element and awarded to a Participant under Section 11.

"Participant" means, subject to Section 4 hereof, a person selected by the Committee to receive an Award under the Plan.

"Performance Cycle" or "Cycle" means the period of time selected by the Committee during which performance is measured for the purpose of determining the extent to which an award of Performance Shares has been earned.

"Performance Shares" mean shares of Common Stock, which may be earned by the achievement of performance goals, awarded to a Participant under Section 8.

"Reporting Person" means a person subject to Section 16 of the Securities Exchange Act of 1934 or any successor provision.

"Restricted Period" means the period of time selected by the Committee during which an Award may be forfeited to the Company pursuant to the terms and conditions of such Award.

"Restricted Stock" means shares of Common Stock subject to forfeiture awarded to a Participant under Section 9.

"Stock Appreciation Right" or "SAR" means a right to receive any excess in value of shares of Common Stock over the exercise price awarded to a Participant under Section 7.

"Stock Unit" means an award of Common Stock or units that are valued in whole or in part by reference to, or otherwise based on, the value of Common Stock, awarded to a Participant under Section 10.

"Ten-Percent Stockholder" shall mean a Participant who, at the time of grant of an Incentive Stock Option, owns, applying Section 424(d) of the Code, stock possessing more than ten percent of the total combined voting power of all classes of stock of the Company or a "parent corporation" or "subsidiary corporation" (both as defined in Section 424 of the Code) with respect to the Company.

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Section 3. *Administration*

The Plan shall be administered by the Committee. The Committee shall have authority and discretion to adopt, alter and repeal such administrative rules, guidelines and practices governing the operation of the Plan as it shall from time to time consider advisable, to interpret the provisions of the Plan, subject to the provisions of the Plan, to grant Awards to Participants and determine the terms of all such Awards, to determine the identity of a Participant's Designated Beneficiary and to determine the identity of a Participant's (or Designated Beneficiary's) legal representative in the event such person becomes legally disabled. The Committee's decisions shall be final and binding. The Committee may also recommend Awards to the full Board for approval. To the extent permitted by applicable law, the Committee may delegate to one or more executive officers of the Company the power to make Awards to Participants who are not Reporting Persons or covered employees and all determinations under the Plan with respect thereto, provided that the Committee shall fix the maximum amount of such Awards for all such Participants and a maximum for any one Participant.

Section 4. *Eligibility*

All employees (but excluding any independent contractor or leased employee who is deemed to be a "common law" employee of the Company or any Affiliate) and, in the case of Awards other than Incentive Stock Options, any consultant of the Company or any Affiliate, capable of contributing significantly to the successful performance of the Company, other than a person who has irrevocably elected not to be eligible, are eligible to be Participants in the Plan.

Section 5. *Stock Available for Awards*

(a) Subject to adjustment under subsection (b), the maximum number of shares of Common Stock that may be issued under the Plan is 15,500,000 shares of Common Stock. If any Award in respect of shares of Common Stock expires or is terminated unexercised or is forfeited without the Participant having had the benefits of ownership (other than voting rights, if any), the shares subject to such Award, to the extent of such expiration, termination or forfeiture, shall again be available for award under the Plan to the same extent such shares would have been available if such expired, terminated or forfeited Award had not been made. Common Stock issued through the assumption or substitution of outstanding grants from an acquired company shall not reduce the shares available for Awards under the Plan to the extent permitted under Section 422 of the Code. Shares issued under the Plan may consist in whole or in part of authorized but unissued shares or treasury shares; provided, however, that shares of Common Stock that have actually been issued under the Plan, whether upon exercise or of an Award or issuance with respect thereto, shall not be returned to the Plan and shall not become available for future Awards under the Plan, except that if unvested Shares of Restricted Stock or Restricted Stock Units are repurchased by or forfeited to the Company, such Shares shall become available for future grant under the Plan.

(b) Notwithstanding the provisions of Section 5(a), for any two (2) shares of Common Stock issued in connection with a Full Value Award, three (3) fewer shares of Common Stock will be available for issuance in connection with Awards under Section 5(a).

(c) In the event that the Committee determines that any stock dividend, extraordinary cash dividend, creation of a class of equity securities, recapitalization, reorganization, merger, consolidation, split-up, spin-off, combination, exchange of shares, warrants or rights offering to purchase Common Stock at a price substantially below fair market value, or other similar transaction affects the Common Stock such that an adjustment is required or desirable in order to preserve the benefits or potential benefits intended to be made available under the Plan, then the Committee (subject, in the case of Incentive Stock Options, to any limitation required under the Code) may in its discretion equitably adjust any or all of, or provide substitution for, (i) the number and kind of shares in respect of which Awards may be made under the Plan, (ii) the

number and kind of shares subject to outstanding Awards, and (iii) the award, exercise or conversion price with respect to any of the foregoing, and if considered appropriate, the Committee may make provision for a cash payment with respect to an outstanding Award, provided that the number of shares subject to any Award shall always be a whole number.

Section 6. *Stock Options*

(a) Subject to the provisions of the Plan, the Committee may award Incentive Stock Options and Nonstatutory Stock Options and determine the number of shares to be covered by each Option, the option price therefor and the conditions and limitations applicable to the exercise of the Option. The terms and conditions of Incentive Stock Options shall be subject to and comply with Section 422 of the Code or any successor provision and any regulations thereunder, and no Incentive Stock Option may be granted hereunder more than ten years after May 19, 2004.

(b) The Committee shall establish the option price at the time each Option is awarded, which price ~~in the case of an Incentive Stock Option~~ shall not be less than 100% (110% in the case of a Ten-Percent Stockholder) of the Fair Market Value of the Common Stock on the date of award with respect to Incentive Stock Options. ~~Nonstatutory Stock Options may be granted at such prices as the Committee may determine.~~

(c) Each Option shall be exercisable at such times and subject to such terms and conditions as the Committee may specify in the applicable Award or thereafter, provided, however, that ~~an Incentive Stock Option~~ may ~~not~~ be exercised more than ten years (five years in the case of a Ten-Percent Stockholder) from the date of award. The Committee may impose such conditions with respect to the exercise of Options, including conditions relating to applicable federal or state securities laws, as it considers necessary or advisable.

(d) No shares shall be delivered pursuant to any exercise of an Option until payment in full of the option price therefor is received by the Company. Such payment may be made in whole or in part in cash or (A) to the extent permitted by the Committee at or after the award of the Option, by delivery (i) of a note or (ii) shares of Common Stock owned by the optionee, including, if vested, shares of Restricted Stock, or (B) to the extent permitted under the terms of the written agreement evidencing the grant of an Option, by (i) retaining shares otherwise issuable pursuant to the Option, in each case valued at their Fair Market Value on the date of delivery or retention, or (ii) such other lawful consideration as the Committee may determine.

(e) The Committee may provide that, subject to such conditions as it considers appropriate, upon the delivery or retention of shares to the Company in payment of an Option, the Participant automatically be awarded an Option for up to the number of shares so delivered.

Section 7. *Stock Appreciation Rights*

(a) Subject to the provisions of the Plan, the Committee may award SARs in tandem with an Option (at or after the award of the Option), or alone and unrelated to an Option. SARs in tandem with an Option shall terminate to the extent that the related Option is exercised, and the related Option shall terminate to the extent that the tandem SARs are exercised. SARs granted in tandem with Options shall have an exercise price not less than the exercise price of the related Option. SARs granted alone and unrelated to an Option may be granted at such exercise prices as the Committee may determine; provided, however, such exercise price shall not be less than 100% (110% in the case of a Ten-Percent Stockholder) of the Fair Market Value of the Common Stock on the date of the Award of such SARs.

(b) An SAR related to an Option, which SAR can only be exercised upon or during limited periods following a change in control of the Company, may entitle the Participant to receive an amount based upon the highest price paid or offered for Common Stock in any transaction

relating to the change in control or paid during the thirty-day period immediately preceding the occurrence of the change in control in any transaction reported in the stock market in which the Common Stock is normally traded. No SAR may be exercised more than ten years (five years in the case of a Ten-Percent Stockholder) from the date of award.

Section 8. *Performance Shares*

(a) Subject to the provisions of the Plan, the Committee may award Performance Shares and determine the number of such shares for each Performance Cycle and the duration of each Performance Cycle. There may be more than one Performance Cycle in existence at any one time, and the duration of Performance Cycles may differ from each other. The payment value of Performance Shares shall be equal to the Fair Market Value of the Common Stock on the date the Performance Shares are earned or, in the discretion of the Committee, on the date the Committee determines that the Performance Shares have been earned.

(b) The Committee shall establish performance goals for each Cycle, for the purpose of determining the extent to which Performance Shares awarded for such Cycle are earned, on the basis of such criteria and to accomplish such objectives as the Committee may from time to time select. During any Cycle, the Committee may adjust the performance goals for such Cycle as it deems equitable in recognition of unusual or non-recurring events affecting the Company, changes in applicable tax laws or accounting principles, or such other factors as the Committee may determine.

(c) As soon as practicable after the end of a Performance Cycle, the Committee shall determine the number of Performance Shares that have been earned on the basis of performance in relation to the established performance goals. The payment values of earned Performance Shares shall be distributed to the Participant or, if the Participant has died, to the Participant's Designated Beneficiary, as soon as practicable thereafter. The Committee shall determine, at or after the time of award, whether payment values will be settled in whole or in part in cash or other property, including Common Stock or Awards.

Section 9. *Restricted Stock*

(a) Subject to the provisions of the Plan, the Committee may award shares of Restricted Stock and determine the duration of the Restricted Period during which, and the conditions under which, the shares may be forfeited to the Company and the other terms and conditions of such Awards. Shares of Restricted Stock may be issued for no cash consideration or such minimum consideration as may be required by applicable law.

(b) Shares of Restricted Stock may not be sold, assigned, transferred, pledged or otherwise encumbered, except as permitted by the Committee, during the Restricted Period. Shares of Restricted Stock shall be evidenced in such manner as the Committee may determine. Any certificates issued in respect of shares of Restricted Stock shall be registered in the name of the Participant and unless otherwise determined by the Committee, deposited by the Participant, together with a stock power endorsed in blank, with the Company. At the expiration of the Restricted Period, the Company shall deliver such certificates to the Participant or if the Participant has died, to the Participant's Designated Beneficiary.

Section 10. *Stock Units*

(a) Subject to the provisions of the Plan, the Committee may award Stock Units subject to such terms, restrictions, conditions, performance criteria, vesting requirements and payment rules as the Committee shall determine.

(b) Shares of Common Stock awarded in connection with a Stock Unit Award shall be issued for no cash consideration or such minimum consideration as may be required by applicable law.

Section 11. *Other Stock-Based Awards*

(a) Subject to the provisions of the Plan, the Committee may make other awards of Common Stock and other awards that are valued in whole or in part by reference to, or are otherwise based on, Common Stock, including without limitation convertible preferred stock, convertible debentures, exchangeable securities and Common Stock awards or options. Other Stock-Based Awards may be granted either alone or in tandem with other Awards granted under the Plan and/or cash awards made outside of the Plan.

(b) The Committee may establish performance goals, which may be based on performance goals related to book value, subsidiary performance or such other criteria as the Committee may determine, Restricted Periods, Performance Cycles, conversion prices, maturities and security, if any, for any Other Stock-Based Award. Other Stock-Based Awards may be sold to Participants at the face value thereof or any discount therefrom or awarded for no consideration or such minimum consideration as may be required by applicable law.

Section 12. *General Provisions Applicable to Awards*

(a) *Vesting of Full Value Awards.* Notwithstanding anything to the contrary contained herein, the minimum vesting periods for a Full Value Award shall be (i) for three years for Awards that vest based on continued service to the Company and (ii) for one year for Awards that vest based upon the accomplishment of performance criteria (where such performance criteria are determined in the discretion of the Board or the Committee.

(b) *Documentation.* Each Award under the Plan shall be evidenced by a writing delivered to the Participant or accessible by electronic means specifying the terms and conditions thereof and containing such other terms and conditions not inconsistent with the provisions of the Plan as the Committee considers necessary or advisable to achieve the purposes of the Plan or to comply with applicable tax and regulatory laws and accounting principles.

(c) *Committee Discretion.* Each type of Award may be made alone, in addition to or in relation to any other type of Award. The terms of each type of Award need not be identical, and the Committee need not treat Participants uniformly. Except as otherwise provided by the Plan or a particular Award, any determination with respect to an Award may be made by the Committee at the time of award or at any time thereafter.

(d) *Settlement.* The Committee shall determine whether Awards are settled in whole or in part in cash, Common Stock, other securities of the Company, Awards or other property. The Committee may permit a Participant to defer all or any portion of a payment under the Plan, including the crediting of interest on deferred amounts denominated in cash and dividend equivalents on amounts denominated in Common Stock.

(e) *Dividends and Cash Awards.* In the discretion of the Committee, any Award under the Plan may provide the Participant with (i) dividends or dividend equivalents payable currently or deferred with or without interest, and (ii) cash payments in lieu of or in addition to an Award.

(f) *Termination of Employment.* The Committee shall determine the effect on an Award of the disability, death, retirement or other termination of employment of a Participant and the extent to which, and the period during which, the Participant's legal representative, guardian or Designated Beneficiary may receive payment of an Award or exercise rights thereunder.

(g) *Change in Control.* In order to preserve a Participant's rights under an Award in the event of a change in control of the Company, the Committee in its discretion may, at the time an Award is made or at any time thereafter, take one or more of the following actions: (i) provide for the acceleration of any time period relating to the exercise or realization of the Award, (ii) provide for the purchase of the Award upon the Participant's request for an amount of cash or other

property that could have been received upon the exercise or realization of the Award had the Award been currently exercisable or payable, (iii) adjust the terms of the Award in a manner determined by the Committee to reflect the change in control, (iv) cause the Award to be assumed, or new rights substituted therefor, by another entity, or (v) make such other provision as the Committee may consider equitable and in the best interests of the Company.

(h) *Withholding Taxes.* The Participant shall pay to the Company, or make provision satisfactory to the Committee for payment of, any taxes required by law to be withheld in respect of Awards under the Plan no later than the date of the event creating the tax liability. The Company's obligation to issue or deliver shares of Common Stock or pay any amount pursuant to any Award shall be subject to the Participant's satisfaction of his or her obligations under the preceding sentence. In the Committee's discretion, such tax obligations may be paid in whole or in part in shares of Common Stock, including shares retained from the Award creating the tax obligation, valued at their Fair Market Value on the date of delivery. The Company and its Affiliates may, to the extent permitted by law, deduct any such tax obligations from any payment of any kind otherwise due to the Participant.

(i) *Foreign Nationals.* Awards may be made to Participants who are foreign nationals or employed outside the United States on such terms and conditions different from those specified in the Plan as the Committee considers necessary or advisable to achieve the purposes of the Plan or to comply with applicable laws.

(j) *Amendment of Award.* The Committee may amend, modify or terminate any outstanding Award, including substituting therefor another Award of the same or a different type, changing the date of exercise or realization and converting an Incentive Stock Option to a Nonstatutory Stock Option, provided that the Participant's consent to such action shall be required unless the Committee determines that the action, taking into account any related action, would not materially and adversely affect the Participant. Notwithstanding the foregoing sentence, unless such action is approved by the Company's stockholders or is an adjustment resulting from the operation of Section 5 (b) of the Plan: (A) no outstanding Option granted under the Plan may be amended to provide an exercise price per share that is lower than the then-current exercise price per share stated in such outstanding Option, and (B) the Committee may not cancel any outstanding Option and grant in substitution therefor new Awards under the Plan covering the same or a different number of shares of Common Stock and having an exercise price per share lower than the then-current exercise price per share of the cancelled Option.

(k) *Transferability.* In the discretion of the Committee, any Award may be made transferable upon such terms and conditions and to such extent as the Committee determines (which terms and conditions may be waived by the Committee in its discretion), provided that Incentive Stock Options may be transferable only to the extent permitted by the Code.

Section 13. *Miscellaneous*

(a) *No Right To Employment.* No person shall have any claim or right to be granted an Award, and the grant of an Award shall not be construed as giving a Participant the right to continued employment. The Company expressly reserves the right at any time to dismiss a Participant free from any liability or claim under the Plan, except as expressly provided in the applicable Award.

(b) *No Rights As Stockholder.* Subject to the provisions of the applicable Award, no Participant or Designated Beneficiary shall have any rights as a stockholder with respect to any shares of Common Stock to be distributed under the Plan until he or she becomes the holder thereof. A Participant to whom Common Stock is awarded shall be considered the holder of the Stock at the time of the Award except as otherwise provided in the applicable Award.

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(c) *Effective Date.* Subject to the approval of the stockholders of the Company, the Plan shall be effective on the Effective Date. Before such approval, Awards may be made under the Plan expressly subject to such approval.

(d) *Amendment of Plan.* The Board may amend, suspend or terminate the Plan or any portion thereof at any time, subject to any stockholder approval that the Board determines to be necessary or advisable.

(e) *Governing Law.* The provisions of the Plan shall be governed by and interpreted in accordance with the laws of Delaware.

This Plan was approved by the Board of Directors on October 17, 1994.

This Plan was approved by the stockholders on October 17, 1994.

The Board of Directors amended and restated this Plan on April 8, 1998.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 14, 1998.

The Board of Directors amended and restated this Plan on March 16, 2000.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2000.

The Board of Directors amended and restated this Plan on March 23, 2001.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 17, 2001.

The Board of Directors amended and restated this Plan on March 21, 2002.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 16, 2002.

The Board of Directors amended and restated this Plan on April 7, 2004.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 19, 2004.

The Board of Directors amended and restated this Plan on April 4, 2005.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2005.

The Board of Directors authorized the amendment and restatement of this Plan on May 11, 2005, effective September 13, 2005.

Pursuant to Section 13 (d) of the Plan, the Board determined that it was not necessary or advisable to obtain stockholder approval of the amendment and restatement.

The Board of Directors amended and restated this Plan on January 21, 2008.

These amendments and restatements were submitted to the stockholders for approval at the Annual Meeting of Stockholders on May 14, 2008 but were not approved.

The Board of Directors amended and restated this Plan on January 21, 2009.

The amendments and restatements were approved by the stockholders at the Annual Meeting of Stockholders on May 13, 2009.

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The Board of Directors amended and restated this Plan on March 11, 2010.

The amendments and restatements were approved by the stockholders at the Annual Meeting of Stockholders on May 13, 2010.

The Board of Directors amended and restated this Plan on March 11, 2010.

The amendments and restatements were approved by the stockholders at the Annual Meeting of Stockholders on May 13, 2010.

The Board of Directors amended and restated this Plan on March 14, 2011.

A-9

ARQULE, INC.

Amended and Restated 1996 Employee Stock Purchase Plan

1. Purpose.

The purpose of this 1996 Employee Stock Purchase Plan (the "Plan") is to provide employees of ArQule, Inc. (the "Company"), and its subsidiaries, who wish to become ~~shareholders~~ stockholders of the Company an opportunity to purchase shares of Common common Stock stock, \$0.01 par value, of the Company (~~the "Shares of Common Stock" or "Shares"~~). The Plan is intended to qualify as an "employee stock purchase plan" within the meaning of Section 423 of the Internal Revenue Code of 1986, as amended (the "Code").

2. Eligible Employees.

Subject to the provisions of Sections 7, 8 and 9 below, any individual who is a full-time employee (as defined below) of the Company, or any of the Company's subsidiary corporations (as defined in Section 424(f) of the Code) the employees of which are designated by the Board of Directors as eligible to participate in the Plan, is eligible to participate in any Offering of Shares (as defined in Section 3 below) made by the Company hereunder. Full-time employees shall include all employees who were engaged by the Company or any of its subsidiary corporations, as applicable, as an employee and not as an independent contractor or leased employee and whose customary employment is:

- (a) 20 hours or more per week and
- (b) more than five months

in the calendar year during which said Offering Date occurs or in the calendar year immediately preceding such year. Independent contractors and leased employees of the Company shall not be eligible for participation in the Plan notwithstanding that they may be deemed to be "common law" employees of the Company for other purposes. Notwithstanding anything to the contrary herein, no employee of the Company or any of its subsidiary corporations (~~as defined in Section 424(f) of the Code~~) may be excluded from participation in the Plan unless he or she is within a category of employees permitted or required to be excluded from participation pursuant to Section 423 of the Code.

3. Offering.

From time to time, the Company, by action of the Board of Directors or a committee of its members designated by the Board of Directors (the "Committee"), will grant rights to purchase Shares to employees eligible to participate in the Plan pursuant to one or more offerings (each of which is an "Offering") on a date or series of dates (each of which is an "Offering Date") designated for this purpose by the Board of Directors. Each Offering shall be in such form and shall contain such terms and conditions as the Board of Directors or the Committee shall deem appropriate; provided that, except as otherwise permitted under the Code, all employees who are granted rights to purchase Shares under the Plan shall be entitled to the same rights and privileges under the Plan pursuant to Section 423(b) (5) of the Code.

4. Prices.

The price per share for each grant of rights hereunder shall be the lesser of:

- (a) eighty-five percent (85%) of the fair market value of a Share on the Offering Date on which such right was granted; or
- (b) eighty-five percent (85%) of the fair market value of a Share on the date such right is exercised.

At its discretion, the Board of Directors may determine a higher price for a grant of rights.

5. Exercise of Rights and Method of Payment.

- (a) Rights granted under the Plan will be exercisable periodically on specified dates as determined by the Board of Directors or the Committee.
- (b) The method of payment for Shares purchased upon exercise of rights granted hereunder shall be through regular payroll deductions or by lump sum cash payment or both, as determined by the Board of Directors or the Committee. No interest shall be paid upon payroll deductions unless specifically provided for by the Board of Directors or the Committee.
- (c) Any payments received by the Company from a participating employee and not utilized for the purchase of Shares upon exercise of a right granted hereunder shall be promptly returned to such employee by the Company after termination of the right to which the payment relates.

6. Term of Rights.

The total period from an Offering Date to the last date on which rights granted on that Offering Date are exercisable (the "Offering Period") shall in no event be longer than twenty-seven (27) months. The Board of Directors or the Committee when it authorizes an Offering may designate one or more exercise periods during the Offering Period. Rights granted on an Offering Date shall be exercisable in full on the Offering Date or in such proportion on the last day of each exercise period as the Board of Directors determines.

7. Shares Subject to the Plan.

No more than two million (~~2,000,000~~ 2,400,000) Shares may be sold pursuant to rights granted under the Plan. Appropriate adjustments in the above figure, in the number of Shares covered by outstanding rights granted hereunder, in the exercise price of the rights and in the maximum number of Shares, and the limit on such maximum number, which an employee may purchase (pursuant to Section 9 below) shall be made to give effect to any mergers, consolidations, reorganizations, recapitalizations, stock splits, stock dividends or other relevant changes in the capitalization of the Company occurring after the effective date of the Plan, provided that no fractional Shares shall be subject to a right and each right shall be adjusted downward to the nearest full Share. Either authorized and unissued Shares or issued Shares heretofore or hereafter reacquired by the Company may be made subject to rights under the Plan. If for any reason any right under the Plan terminates in whole or in part, Shares subject to such terminated right may again be subjected to a right under the Plan.

8. Limitations on Grants.

- (a) No employee shall be granted a right hereunder if such employee, immediately after the right is granted, would own ~~stock~~ Shares of Common Stock or rights to purchase Shares of Common Stock ~~stock~~ possessing five percent (5%) or more of the total combined voting power or value of all classes of stock of the Company, or of any "subsidiary corporation" or "parent

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corporation," both as defined in Section 424 of the Code, ~~in respect of the Company,~~ computed in accordance with Section 423(b)(3) of the Code.

(b)

No employee shall be granted a right which permits his right to purchase ~~shares~~Shares under all employee stock purchase plans of the Company and of any "subsidiary corporation" or "parent corporation," ~~both as defined in Section 424 of the Code, in respect of the Company,~~ to accrue at a rate which exceeds twenty-five thousand dollars (\$25,000) (or such other maximum as may be prescribed from time to time by the Code) of the fair market value of such Shares (determined at the time such right is granted) for each calendar year in which such right is outstanding at any time in accordance with the provisions of Section 423(b)(8) of the Code.

(c)

No right granted to any participating employee under an Offering, when aggregated with rights granted under any other Offering still exercisable by the participating employee, shall cover more ~~shares~~Shares than may be purchased at an exercise price equal to fifteen percent (15%) of the employee's annual rate of compensation on the date the employee elects to participate in the Offering or such lesser percentage as the Board of Directors may determine.

9. Limit on Participation.

Participation in an Offering shall be limited to eligible employees who elect to participate in such Offering in the manner, within the time limitations, and subject to limitations on the number of ~~shares~~Shares available for purchase by an individual employee and in the aggregate by all participating employees established by the Board of Directors; or ~~committee~~the Committee thereof, when it authorizes the Offering.

10. Cancellation of Election to Participate.

An employee who has elected to participate in an Offering may cancel such election as to all (but not part) of the unexercised rights granted under such Offering by giving written notice of such cancellation to the Company before the expiration of any exercise period. Any amounts paid by the employee for the Shares or withheld for the purchase of Shares from the employee's compensation through payroll deductions shall be paid to the employee, without interest, unless otherwise determined by the Board of Directors or the Committee, upon such cancellation.

11. Termination of Employment.

Upon the termination of employment for any reason, including the death of the employee, before the date on which any rights granted under the Plan are exercisable, all such rights shall immediately terminate and amounts paid by the employee for the Shares or withheld for the purchase of Shares from the employee's compensation through payroll deductions shall be paid to the employee or to the employee's estate, without interest unless otherwise determined by the Board of Directors or the Committee.

12. Employees' Rights as Shareholders.

No participating employee shall have any rights as a shareholder in the Shares covered by a right granted hereunder until such right has been exercised, full payment has been made for the corresponding Shares and ~~the Share~~a certificate for the Shares or uncertificated Shares have ~~is~~been actually issued.

13. Rights Not Transferable.

Rights under the Plan are not assignable or transferable by a participating employee and are exercisable only by the employee.

14. Amendments to or Discontinuation of the Plan.

The Board of Directors of the Company shall have the right to amend, modify or terminate the Plan at any time without notice; provided, however, that the then existing rights of all participating employees shall not be adversely affected thereby, and provided further that, subject to the provisions of Section 7 above, no such amendment to the Plan shall, without the approval of the ~~shareholders~~stockholders of the Company, increase the total number of Shares which may be offered under the Plan.

15. Effective Date and Approvals.

This Plan became effective on August 14, 1996, the date it was adopted by the Board of Directors. The ~~shareholders~~stockholders of the Company approved the Plan within twelve (12) months of the date of adoption.

The Company's obligation to offer, sell and deliver its Shares under the Plan is subject to (i) the approval of any governmental authority required in connection with the authorized issuance or sale of such Shares, (ii) satisfaction of the listing requirements of any national securities exchange on which the Shares are then listed and (iii) compliance, in the opinion of the Company's counsel with, all applicable federal and state securities and other laws.

16. Term of Plan.

No rights shall be granted under the Plan after May 18, 2016.

17. Administration of the Plan.

The Board of Directors, ~~The Committee~~ or any ~~committee~~other person(s) to whom ~~the Board of Directors~~ delegates its authority (the "Administrator") shall administer, interpret and apply all provisions of the Plan as it deems necessary to meet special circumstances not anticipated or covered expressly by the Plan. Nothing contained in this Section shall be deemed to authorize the Administrator to alter or administer the provisions of the Plan in a manner inconsistent with the provisions of Section 423 of the Code.

The Board of Directors amended and restated this Plan on March 23, 2001.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 17, 2001.

The Board of Directors amended and restated this Plan on March 21, 2002.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 16, 2002.

The Compensation Committee of the Board of Directors authorized amendment and restatement of this Plan on March 21, 2002 which changes were made effective as of February 14, 2003 and November 7, 2003. Because of the ministerial nature of the changes, the approval of the stockholders was not required.

The Compensation Committee of the Board of Directors has been redesignated as the Compensation, Nominating and Governance Committee of the Board of Directors.

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The Board of Directors amended and restated this Plan on March 14, 2003.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 21, 2003.

The Board of Directors amended and restated this Plan on April 4, 2005.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2005.

The Board of Directors amended and restated this Plan on September 13, 2005.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2006.

The Board of Directors amended and restated this Plan on January 16, 2007.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2007.

The Board of Directors amended and restated this Plan on January 20, 2009.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 14, 2009.

The Board of Directors amended and restated this Plan on March 14, 2011

ARQULE, INC.

Amended and Restated 1996 Director Stock Option Plan

The purpose of this Amended and Restated 1996 Director Stock Option Plan (the "Plan") of ArQule, Inc. (the "Company") is to attract and retain highly qualified non-employee directors of the Company and to encourage ownership of stock of the Company by such directors so as to provide additional incentives to promote the success of the Company.

1. ADMINISTRATION OF THE PLAN.

Grants of stock options under this Plan shall be automatic as provided in Section 6. However, all questions of interpretation with respect to this Plan and options granted under it shall be determined by the Board of Directors of the Company (the "Board") or by a committee consisting of one or more directors appointed by the Board and such determination shall be final and binding upon all persons having an interest in this Plan.

2. PERSONS ELIGIBLE TO PARTICIPATE IN THE PLAN.

Each director of the Company who is not an employee of the Company or of any subsidiary of the Company shall be eligible to participate in this Plan unless such director irrevocably elects not to participate.

3. SHARES SUBJECT TO THE PLAN.

(a) The aggregate number of shares of the Company's Common Stock, \$0.01 par value ("Common Stock") which may be optioned under this Plan is 950,000 shares. Shares issued under this Plan may consist in whole or in part of authorized but unissued shares or treasury shares.

(b) In the event of a stock dividend, split-up, combination or reclassification of shares, recapitalization or other similar capital change relating to the Company's Common Stock, the maximum aggregate number and kind of shares or securities of the Company as to which options may be granted under this Plan and as to which options then outstanding shall be exercisable, and the option price of such options shall be appropriately adjusted so that the proportionate number of shares or other securities as to which options may be granted and the proportionate interest of holders of outstanding options shall be maintained as before the occurrence of such event.

(c) In the event of a consolidation or merger of the Company with another corporation where the Company's stockholders do not own a majority in interest of the surviving or resulting corporation, or the sale or exchange of all or substantially all of the assets of the Company, or a reorganization or liquidation of the Company, any deferred exercise period shall be automatically accelerated and each holder of an outstanding option shall be entitled to receive upon exercise and payment in accordance with the terms of the option the same shares, securities or property as he would have been entitled to receive upon the occurrence of such event if he had been, immediately prior to such event, the holder of the number of shares of Common Stock purchasable under his or her option; provided, however, that in lieu of the foregoing the Board may upon written notice to each holder of an outstanding option or right under this Plan, provide that such option or right shall terminate on a date not less than 20 days after the date of such notice unless theretofore exercised.

(d) Whenever options under this Plan lapse or terminate or otherwise become unexercisable the shares of Common Stock which were subject to such options may again be subjected to options under

this Plan. The Company shall at all times while this Plan is in force reserve such number of shares of Common Stock as will be sufficient to satisfy the requirements of this Plan.

4. NON-STATUTORY STOCK OPTIONS.

All options granted under this Plan shall be non-statutory options not entitled to special tax treatment under Section 422 of the Internal Revenue Code of 1986, as amended (the "Code").

5. FORM OF OPTIONS.

Options granted hereunder shall be in substantially the form of the attached EXHIBIT A or in such other form as the Board or any committee appointed pursuant to Section 1 above may from time to time determine.

6. GRANT OF OPTIONS AND OPTION TERMS

(a) AUTOMATIC GRANT OF OPTIONS. Upon the initial election or appointment of any person as a member of the Board who is an eligible director (whether or not such election is at an annual meeting of stockholders or otherwise), such person shall automatically be granted (i) an option to purchase 30,000 shares of Common Stock (an "Initial Option"). In addition, at each annual meeting of stockholders, each eligible director serving as a member of the Board (other than the Chairman of the Board) prior to and immediately after such annual meeting (whether or not such director was reelected at such meeting) shall automatically be granted an annual option to purchase 15,000 shares of Common Stock (an "Annual Option"). Upon the initial election or appointment of any person who is an eligible director (whether or not such election is at an annual meeting of stockholders or otherwise) as the Chairman of the Board of Directors, such person shall automatically be granted (i) an option to purchase 25,000 shares of Common Stock (the "Initial Chairman Option"). In addition, at each annual meeting of stockholders, such eligible director serving as Chairman of the Board prior to and immediately after such annual meeting (whether or not such director was reelected at such meeting) shall automatically be granted an annual option to purchase 25,000 shares of Common Stock (the "Annual Chairman Option" and, together with the Initial Chairman Option, the "Chairman Options"). The Annual Options together with the Initial Options and Chairman Options are sometimes collectively referred to as "Options". No Options shall be granted hereunder after May 18, 2016.(1)

(b) DATE OF GRANT. The "Date of Grant" for Options granted under this Plan shall be the date of initial election as a director or appointment as Chairman or the date of the annual stockholder meeting at which such Option was granted, as the case may be in accordance with Section 6(a).

(c) OPTION PRICE. The option price for each Option granted under this Plan shall be not be less than 100% of the Fair Market Value of the Company's Common Stock on the Date of Grant. For purposes of this Plan, "Fair Market Value" means, unless otherwise determined by the Board, the closing price for the Company's Common Stock as reported by the NASDAQ Stock Market, Inc. on the Date of Grant; provided, however, that in all events shall Fair Market Value be determined pursuant to a method that complies with Proposed Treasury Regulation §1.409A-1(b) (5) or any successor provision.(2)

(1) This Plan was amended by the Board to extend the period during which Options may be granted to ten years after May 18, 2006, the date of the 2006 Annual Meeting of Stockholders of the Company at which the stockholders approved the amendment.

(2) This section was amended by the Board on January 16, 2007 to make the date of determination of Fair Market Value, the Date of Grant.

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(d) **TERM OF OPTION.** The term of each Option granted under this Plan shall be ten years from the Date of Grant.

(e) **EXERCISABILITY OF OPTIONS.**

(1) The Initial Options granted under this Plan shall become exercisable with respect to ~~6,666~~10,000 shares on the date of each of the Company's next three annual meetings of stockholders ~~from following~~ the Date of Grant ~~and with respect to 6,667 shares on the date of each of the next two annual meetings of stockholders following such annual meeting of stockholders~~, but in all cases if, and only if, the Option holder is a member of the Board at the opening of business on that date. The Initial Chairman Options granted under this Plan shall become exercisable with respect to 8,334 shares on the date of the Company's next annual meeting of stockholders from the Date of Grant and with respect to 8,333 shares on the date of each of the next two annual meetings of stockholders following such annual meeting of stockholders, but in all cases if, and only if, the Option holder is a member of the Board at the opening of business on that date.

(2) The Annual Options and Annual Chairman Options granted under this Plan shall become exercisable with respect to all shares on the Date of Grant.

(f) **GENERAL EXERCISE TERMS.** Directors holding exercisable Options under this Plan who cease to serve as members of the Board may, during their lifetime, exercise the rights they had under such Options at the time they ceased being a director for the full unexpired term of such Option. Any rights that have not yet become exercisable shall terminate upon cessation of membership on the Board. Upon the death of a director, those entitled to do so shall have the right, at any time within twelve months after the date of death, to exercise in whole or in part any rights which were available to the director at the time of his or her death. The rights of the Option holder may be exercised by the holder's guardian or legal representative in the case of disability and by the beneficiary designated by the holder in writing delivered to the Company or, if none has been designated, by the holder's estate or his or her transferee in accordance with this Plan, in the case of death. Options granted under this Plan shall terminate, and no rights thereunder may be exercised, after the expiration of the applicable exercise period. Notwithstanding the foregoing provisions of this section, no rights under any Options may be exercised after the expiration of ten years from their Date of Grant.

(g) **METHOD OF EXERCISE AND PAYMENT.** Options may be exercised only by written notice to the Company at its principal office accompanied by payment of the full Option price for the shares of Common Stock as to which they are exercised. The Option price shall be paid in cash or by check or in shares of Common Stock of the Company, or in any combination thereof. Shares of Common Stock surrendered in payment of the Option price shall have been held by the person exercising the Option for at least six months, unless otherwise permitted by the Board. The value of shares delivered in payment of the Option price shall be their fair market value, as determined in accordance with Section 6(c) above, as of the date of exercise. Upon receipt of such notice and payment, the Company shall promptly issue and deliver to the optionee (or other person entitled to exercise the Option) a certificate or certificates for the number of shares as to which the exercise is made.

(h) **NON-TRANSFERABILITY.** Options granted under this Plan shall not be transferable by the holder thereof otherwise than by will or the laws of descent and distribution or as permitted by Rule 16b-3 (or any successor provision) under the Securities Exchange Act of 1934, as amended ("Rule 16b-3").

7. **LIMITATION OF RIGHTS.**

(a) **NO RIGHT TO CONTINUE AS A DIRECTOR.** Neither this Plan, nor the granting of an Option or any other action taken pursuant to this Plan, shall constitute an agreement or understanding,

express or implied, that the Company will retain an Option holder as a director for any period of time or at any particular rate of compensation.

(b) NO STOCKHOLDERS' RIGHTS FOR OPTIONS. A director shall have no rights as a stockholder with respect to the shares covered by Options until the date the director exercises such Options and pays the Option price to the Company, and no adjustment will be made for dividends or other rights for which the record date is prior to the date such Option is exercised and paid for.

8. AMENDMENT OR TERMINATION.

The Board may amend or terminate this Plan at any time, provided that, to the extent necessary or desirable to comply with Rule 16b-3, this Plan shall not be amended more than once every six months, other than to comport with changes in the Code, ERISA or the rules thereunder.

9. STOCKHOLDER APPROVAL.

The 1996 Director Stock Option Plan was approved by the stockholders of the Company by an affirmative vote of the holders of a majority of the shares of Common Stock present, or represented and entitled to vote, at the Company's 1997 annual meeting of stockholders, ~~and a~~ Any further amendments hereto shall be subject to stockholder approval to the extent (i) required by law, (ii) required by Nasdaq or stock exchange listing requirements, as determined by the Board of Directors, or (iii) as desirable, as determined by the Board of Directors, to comply with Rule 16b-3. In the event any amendment to increase the number of shares of Common Stock which may be optioned under this Plan is not approved ~~approved is not obtained by the stockholders~~, all Options granted under this Plan ~~after such further amendment~~ with respect to shares from an increase not approved by stockholders shall be void and without effect.

10. GOVERNING LAW.

This Plan shall be governed by and interpreted in accordance with the laws of the State of Delaware.

11. COMPLIANCE WITH SECTION 409A OF THE CODE.

Notwithstanding any other provision of this Plan to the contrary, to the extent any grant (or a modification of a grant) of options under this Plan results in the deferral of compensation (for purposes of Section 409A of the Code), the terms and conditions of the grant shall comply with Section 409A of the Code.

The Board of Directors amended and restated this Plan on March 16, 2000.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2000.

The Board of Directors amended and restated this Plan on March 21, 2002.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 16, 2002.

The Board of Directors amended and restated this Plan on March 14, 2003.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 21, 2003.

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The Board of Directors amended and restated this Plan on April 7, 2004.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 19, 2004.

The Board of Directors amended and restated this Plan on April 4, 2005.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2005.

The Board of Directors amended and restated this Plan on March 13, 2006.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2006.

The Board of Directors amended and restated this Plan on January 16, 2007.

The amendment and restatement was approved by the stockholders at the Annual Meeting of Stockholders on May 18, 2007.

Pursuant to Section 13 (d) of this Plan, the Board of Directors amended and restated this Plan on January 21, 2010.

The Board of Directors determined that, in accordance with the terms of this Plan, applicable securities laws and regulations and Nasdaq market rules it was not necessary to obtain the stockholder approval for the amendment and restatement.

The Board of Directors amended and restated this Plan on March 14, 2011.

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