# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# Form 10-K

(Mark One)

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

For the fiscal year ended December 31, 2009

OR

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

For the transition period from

to

Commission file number: 000-24085

# AXT, INC.

(Exact name of registrant as specified in its charter)

Delaware

94-3031310

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification No.)

4281 Technology Drive, Fremont, California

94538

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code: (510) 683-5900 Securities registered pursuant to Section 12(b) of the Act:

Title of each class

Name of each exchange on which registered

Common Stock, \$0.001 par value

The NASDAQ Stock Market LLC

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

None

Indicate by checkmark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act 🗆 Yes 🗷 No

Indicate by checkmark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. 

Yes 
No

Indicate by checkmark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15 (d) of the Securities Exchange Act of

1934 during the preceding 1 filing requirements for the p	`	period that the registrant was required to file such	reports), and (2) has been subject to such
required to be submitted and	d posted pursuant to Rule 405	bmitted electronically and posted on its corporate of Regulation S-T (§ 232.405 of this chapter) during post such files). □ Yes □ No	
•	the best of registrant's knowle	ers pursuant to Item 405 of Regulation S-K (§ 229 edge, in definitive proxy or information statements	1 ,
· ·		ge accelerated filer, an accelerated filer, a non-accel d filer," and "smaller reporting company" in Rule 1	1 0 1 7
Large accelerated filer □	Accelerated filer □	Non-accelerated filer (Do not check if a smaller reporting company)	Smaller reporting company □
Indicate by checkmark	whether the registrant is a sho	ell company (as defined in Rule 12b-2 of the Act).	. □ Yes 🗷 No
The aggregate market	value of the voting stock held	by non-affiliates of the registrant, based upon the	closing sale price of the common stock on
June 30, 2009 as reported or	n the Nasdaq Global Market, v	was approximately \$32,225,971. Shares of commo	on stock held by each officer, director and
by each person who owns 5	% or more of the outstanding	common stock have been excluded in that such pe	ersons may be deemed to be affiliates. This

As of February 25, 2010, 30,880,515 shares, \$0.001 par value, of the registrant's common stock were outstanding.

determination of affiliate status is not a conclusive determination for other purposes.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of the definitive proxy statement for the registrant's 2010 annual meeting of stockholders to be filed with the Commission pursuant to Regulation 14A not later than 120 days after the end of the fiscal year covered by this form are incorporated by reference into Part III of this Form 10-K report. Except for those portions specifically incorporated by reference herein, such document shall not be deemed to be filed with the Commission as part of this Form 10-K.

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#### PART I

This Annual Report (including the following section regarding Management's Discussion and Analysis of Financial Condition and Results of Operations) contains forward-looking statements regarding our business, financial condition, results of operations and prospects. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates" and similar expressions or variations of such words are intended to identify forward-looking statements, but are not the exclusive means of identifying forward-looking statements in this Annual Report. Additionally, statements concerning future matters such as industry trend, the development of new products, enhancements or technologies, sales levels, expense levels and other statements regarding matters that are not historical are forward-looking statements.

Although forward-looking statements in this Annual Report reflect the good faith judgment of our management, such statements can only be based on facts and factors currently known by us. Consequently, forward-looking statements are inherently subject to risks and uncertainties and actual results and outcomes may differ materially from the results and outcomes discussed in or anticipated by the forward-looking statements. Factors that could cause or contribute to such differences in results and outcomes include without limitation those discussed under the heading "Risk Factors" in Item 1A below, as well as those discussed elsewhere in this Annual Report. Readers are urged not to place undue reliance on these forward-looking statements, which speak only as of the date of this Annual Report. We undertake no obligation to revise or update any forward-looking statements in order to reflect any event or circumstance that may arise after the date of this Annual Report. Readers are urged to carefully review and consider the various disclosures made in this Annual Report, which attempt to advise interested parties of the risks and factors that may affect our business, financial condition, results of operations and prospects.

#### Item 1. Business

AXT, Inc. ("AXT", "we," "us," and "our" refer to AXT, Inc. and all of its subsidiaries) is a leading developer and producer of high-performance compound and single element semiconductor substrates, including substrates made from gallium arsenide (GaAs), indium phosphide (InP) and germanium (Ge). We currently sell the following substrate products in the sizes and for the applications indicated:

Substrates	Substrate Diameter	Applications			
GaAs (semi-insulating)	2", 3", 4", 5", 6"	Power amplifiers and radio frequency integrated circuits for wireless handsets (cell phones)			
		Direct broadcast television			
		High-performance transistors			
		Satellite communications			
GaAs (semi-conducting)	2", 3", 4"	High brightness light emitting diodes			
		• Lasers			
		Optical couplers			
InP	2", 3", 4"	Broadband and fiber optic communications			
Ge	2", 4"	Satellite and terrestrial solar cells			
		Optical applications			

We manufacture all of our semiconductor substrates using our proprietary vertical gradient freeze (VGF) technology. Most of our revenue is from sales of GaAs substrates. We manufacture all of our products in the People's Republic of China (PRC or China), which generally has favorable costs for facilities and labor compared to comparable facilities in the United States, Europe or Japan. We also have five joint ventures in China that provide us favorable pricing, reliable supply and shorter lead-times for raw materials central to our final manufactured products. We consolidate, for accounting

purposes, three of these joint ventures and have equity interests of 25% in each of the other two. We use our direct sales force in the United States and independent sales representatives in Europe and Asia to market our substrates. Our ten largest customers for 2009 were: Arima Optoelectronics Corporation, Avago Technologies Manufacturing (Singapore) Pte. Ltd., AZUR Space Solar Power GmbH, the IQE group, Osram Opto Semiconductors GmbH, Picogiga International SAS, Sumika Electronic Materials, Inc., Sumitomo Chemical Co., Ltd., Visual Photonics Epitaxy Co., Ltd., and Xiamen Sanan Optoelectronics Co., Ltd. As the demand for compound semiconductor substrates is expected to increase, we believe that we are well-positioned to leverage our PRC-based manufacturing capabilities and access to favorably priced raw materials to increase our market share.

On March 17, 2009, our then-chief executive officer Dr. Philip C.S. Yin resigned as chairman of our Board and as chief executive officer. On July 20, 2009, the Board appointed Dr. Morris S. Young as chief executive officer. Dr. Young continues to serve as a member of the Board of Directors of the Company but is no longer eligible for compensation for his services as a director but instead would be paid compensation as disclosed on the Current Report on Form 8-K filed by the Company with the Securities and Exchange Commission on July 20, 2009. On October 29, 2009, we announced three executive promotions. Raymond A. Low, formerly AXT's vice president, corporate controller and acting chief financial officer, was appointed vice president and chief financial officer. Davis Zhang, formerly AXT's president of joint venture operations, was appointed president of AXT China Operations, with responsibility for managing and developing AXT's joint venture operations, as well as assisting the chief executive officer with the management of AXT's manufacturing facilities in China. Robert G. Ochrym, formerly AXT's vice president of business development, was appointed vice president of business development, strategic sales and marketing. His responsibilities include sales for the North American East Coast and Europe, and together with John J. Cerilli, vice president of global sales and marketing, maximizing customer support around the world. He will also be responsible for developing sales and marketing strategies, major sale contract negotiations, major market identification and other strategic sales and marketing functions. These executive promotions were disclosed on the Current Report on Form 8-K filed by the Company with the Securities and Exchange Commission on October 30, 2009.

On March 28, 2008, we completed the sale of our Fremont, California facility and received net proceeds of approximately \$5.1 million after deducting commissions and selling expenses. On July 1, 2008, we exercised our right to redeem the taxable variable rate revenue bond and repaid all outstanding indebtedness and accrued interest under the terms of the revenue bond of approximately \$6.4 million. Accordingly, all of our remaining obligations under the revenue bond have terminated and the related restricted deposits have been released. In September 2008, we obtained an express line of credit from our bank and drew down \$3 million and classified the same amount as restricted deposits as of December 31, 2008. The proceeds from the express line of credit were used in operations. In the fourth quarter of 2009 we paid down the \$3 million line of credit. As of December 31, 2009, we had available cash, cash equivalents and short-term investments of \$35.4 million.

We were incorporated in California in December 1986 and reincorporated in Delaware in May 1998. We changed our name from American Xtal Technology, Inc. to AXT, Inc. in July 2000. Our principal corporate office is located at 4281 Technology Drive, Fremont, California 94538, and our telephone number at this address is (510) 683-5900.

#### **Industry Background**

Certain electronic and opto-electronic applications have performance requirements that exceed the capabilities of conventional silicon substrates and often require high-performance compound or single element substrates. Examples of higher performance non-silicon based substrates include GaAs, InP, gallium nitride (GaN), silicon carbide (SiC) and Ge.

For example, power amplifiers and radio frequency integrated circuits for wireless handsets and other wireless devices are made with semi-insulating GaAs substrates. Semi-conducting GaAs substrates are used to create opto-electronic products including high brightness light emitting diodes (HBLEDs) which are often used to backlight wireless handsets and liquid crystal display (LCD) TVs and for automotive and general illumination applications. InP is a high performance semiconductor substrate used in broadband and fiber optic applications. Ge substrates are used in emerging applications such as solar cells for space and terrestrial photovoltaic applications.

Our business and operating results depend in significant part upon capital expenditures of semiconductor designers and manufacturers, which in turn depend upon the current and anticipated market demand for products incorporating semiconductors from these designers and manufacturers. Our business also depends in part on worldwide economic conditions. Following the severe recession in the United States and in other key international economies that began during the fourth quarter of 2008, we began to see improvement in the demand environment for our products worldwide in the second half of 2009 that contributed to our strengthening revenue results.

As we move into 2010, there continue to be areas of opportunity for our business. One of the most interesting is the projected growth of smart phones and other sophisticated Internet-connected devices, such as netbooks, that support more advanced features and access to new web-based applications and services. In addition to improving sales of these products, the benefit to AXT from the sales of more feature-rich, sophisticated devices is that they require a greater content of gallium arsenide in order to meet the speed and functionality requirements that consumers have come to expect. Even with the steep decline in spending associated with 2G legacy networks, carriers continue to invest in 3G, 3G+ and 4G in order to remain competitive and attract new subscribers. This network upgrade enables full performance capability of the video, gaming and Internet browsing capabilities of these next generation handsets and wireless devices and is driving increases in wireless subscribers in key geographic areas around the world as well as a compelling upgrade cycle for new devices. Since 2006, we have more than tripled our 6-inch gallium arsenide capacity in order to meet this increasing demand for our products and we plan to continue to expand as new qualifications and growing demand require greater production volume.

The LED market is experiencing growth in a broad range of applications, such as backlighting, signage, general illumination and automotive. LED-based products are becoming increasingly common as the technology offers benefits in terms of cost, efficiency and performance over older technologies. AXT has historically focused its efforts in the high-end market and while we plan to continue to do so, we are also exploring opportunities to participate in the lower-end market as well. This market is geared today towards novelty products and is therefore very margin constrained. However, volumes are high and growing rapidly. In the future, we believe that this market will provide the entry into general illumination applications, as these applications will need lower cost LED devices in order to gain critical mass. Significant product development is underway from industry leaders to create affordable LED-based light bulbs and we believe it will be important to have a presence in this market as it develops.

The concentrator photovoltaic (CPV) market for germanium is also continuing to grow, albeit from a smaller base. Growth in the global solar industry is expected in 2010 as there is increasing interest in the replacement of fossil fuel resources with sustainable alternatives such as solar power and solar modules and a renewed interest in renewable energy technology, particularly in the United States and Europe. At the same time, we believe that improvements in conversion efficiency for germanium are occurring, which we believe will enable this technology to become more affordable and therefore, more widely utilized, in the future.

#### The AXT Advantage

We believe that we benefit from the following advantages:

- Low-cost manufacturing operation in the PRC. Since 2004, we have manufactured all of our products in China, which generally has favorable costs for facilities and labor compared to comparable facilities in the United States or Europe. As of December 31, 2009, approximately 1,063 of our 1,091 employees (including employees at our consolidated joint ventures) are in China. Our primary competitors have their manufacturing operations in Germany or Japan.
- Favorable access to raw materials. Our joint ventures provide us favorable pricing, reliable supply and shorter lead-times for raw materials central to our final manufactured products. These materials include gallium, arsenic, germanium, germanium dioxide, paralytic boron nitride crucibles and boron oxide. As a result, we believe that our joint ventures will enable us to meet potential increases in demand from our customers by providing a more stable supply of raw materials at lower prices.
- Flexible manufacturing infrastructure. Our total manufacturing space in China is approximately 190,000 square feet, 160,000 square feet of which we currently use. We believe that our competitors typically purchase crystal growing furnaces from original equipment manufacturers. In contrast, we design and build our own VGF crystal growing furnaces, which we believe should allow us to increase our production capacity more quickly and cost effectively.

Given these advantages, we believe that, when the worldwide economies begin to improves, the demand for compound semiconductor substrates may again increase. Once demand begins to recover, we believe that we are well-positioned to leverage our PRC-based manufacturing capabilities and access to favorably priced raw materials to begin to increase our market share.

#### Strategy

Our goal is to become the leading worldwide supplier of high-performance compound and single element semiconductor substrates. Key elements of our strategy include:

Continue to provide customers high and consistent quality products and service. We seek to improve our manufacturing processes continually in order to meet and exceed our customers' high product quality standards, ensure on-time delivery of our products and optimize the cost of ownership. We expect to continue to improve our manufacturing processes in 2010 by adding some additional equipment, automating additional processes, and streamlining performance. In addition, we plan to continue to enhance our support functions, including service and applications engineering.

*Increase market share.* We intend to leverage our product quality, competitive pricing and lead times both to establish relationships with new customers and to increase our market share with current customers in the integrated circuits for wireless devices and HBLED markets. We also intend to explore opportunities to participate in the low-end LED market, where volumes are high and growing rapidly.

Flexible capacity to meet customers' increasing demand for substrates. Since 2006, we have tripled our 6-inch semi-insulating gallium arsenide substrate capacity in order to scale with increasing demand. As we enter 2010, we are seeing increasing demand for all sizes of our GaAs substrates and are reviewing our GaAs substrate capacity in order to make appropriate adjustments. In 2010 we expect to build out our remaining 30,000 sq ft production space in Beijing. We will also begin designing a new manufacturing building for future expansions.

In 2009, we experienced a noticeable increase in demand for our Ge substrates due to improving economic conditions as well as new customer qualifications. As a result, we increased our Ge substrate

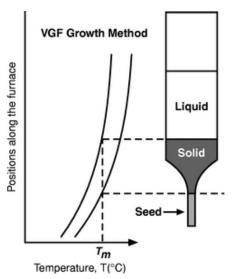
capacity in the fourth quarter of 2009 and will closely follow future demand increases and adjust our production capacity accordingly.

Establish leadership in emerging substrate applications. We intend to expand our served markets by exploring new opportunities for our substrates and we continue to work with our customers to enhance our substrate product offering. For example in collaboration with a major satellite solar cell customer, we found that our VGF-grown Ge substrates had better surface quality and stronger mechanical strength than our competitor's Czochralski-grown Ge substrate. Better material quality can translate to better device performance and/or better yield for our customers. We are also working on the development of a 6" Ge substrate because the larger usable area in a 6-inch wafer over a 4-inch wafer will substantially reduce the cost of Ge solar cell manufacturing, which is essential for commercial adoption of Ge solar cell technology for terrestrial applications.

Technology enhancements. We continue to focus on technology development in the areas of VGF technology enhancement. We are working to increase the VGF ingot length and improve our single crystal yield rate. We also continue to improve our wafer processing technologies to give us better yield, lower production costs and better quality and performance for our customers.

#### **Technology**

There are basically three technologies for crystal growth in our business: Vertical Gradient Freeze (VGF), Liquid Encapsulated Czochralski (LEC), and Czochralski (CZ). Our core technologies include our proprietary VGF technique used to produce high quality crystals that are processed into compound substrates, and the technologies of our joint venture companies, which enable us to manufacture a range of products that are used in the manufacture of compound semiconductor substrates or can be sold as raw materials to third parties.



Our VGF technique is designed to control the crystal-growth process with minimal temperature variation and is the current technique we use to produce our GaAs, InP and Ge substrates. Unlike traditional techniques, our VGF technique places the hot compound melt above the cool crystal, and minimizes the temperature gradient between the crystal and the melt which reduces the turbulence at the interface of the melt and the solid crystal. In comparison, in the LEC technique the melt and crystal are inverted, there is a higher temperature gradient between the melt and the crystal, and more turbulence at the interface of the melt and solid crystal. These aspects of the VGF technique enable us to grow crystals that have a relatively low defect density and high uniformity. The crystal and the

resulting substrate are mechanically strong, resulting in lower breakage rates during a customer's manufacturing process. Since the temperature gradient is controlled electronically rather than by physical movement, the sensitive crystal is not disturbed as it may be during some competitors' VGF-like growth processes. In addition, the melt and growing crystal are contained in a closed chamber, which isolates the crystal from the outside environment to reduce potential contamination. This substrate isolation allows for more precise control of the gallium-to-arsenic ratio, resulting in better consistency and uniformity of the crystals.

Although we are exploring the use of other methods to control the crystal-growth process, including the CZ and LEC methods for select applications, for our traditional GaAs substrates, our VGF technique offers several benefits for producing our GaAs substrates when compared to traditional crystal growing technologies. The Horizontal Bridgman (HB) technique is the traditional method for producing semi-conducting GaAs substrates for opto-electronic applications, but because of the techniques used to hold the GaAs melt, the HB technique cannot be used cost-effectively to produce substrates greater than three inches in diameter. In addition, the HB technique houses the GaAs melt in a quartz container during the growth process, which can contaminate the GaAs melt with silicon impurities, making it unsuitable for producing semi-insulating GaAs substrates.

Our VGF technique also offers advantages over the LEC technique for producing semi-insulating GaAs substrates for wireless applications. Unlike the VGF technique, the LEC technique can result in greater turbulence in the melt, and at a temperature gradient that is significantly higher than the VGF technique, which can cause LEC-grown crystals to have a higher dislocation density than VGF-grown crystals, resulting in a higher rate of breakage during the device manufacturing process. However, the LEC technique can be useful for GaAs semi-conducting substrates since the LED application specifications and requirements are less stringent than those of wireless applications.

#### **Products**

We design, develop, manufacture and distribute high-performance semiconductor substrates. We make semi-insulating GaAs substrates used in applications such as amplifiers and switches for wireless devices, and semi-conducting GaAs substrates used to create opto-electronic products including HBLEDs, which are often used to backlight wireless handsets and LCD TVs and for automotive and general illumination applications. InP is a high performance semiconductor substrate used in broadband and fiber optic applications. Ge substrates are used in emerging applications such as triple junction solar cells for space and terrestrial photovoltaic applications and for optical applications.

The table below sets forth our products and selected applications:

Product	Applications	Applications			
Substrates	Electronic	Opto-electronic			
GaAs	• Cellular phones	• LEDs			
	<ul> <li>Direct broadcast television</li> </ul>	<ul> <li>Lasers</li> </ul>			
	<ul> <li>High-performance transistors</li> </ul>	<ul> <li>Optical couplers</li> </ul>			
	<ul> <li>Satellite communications</li> </ul>				
InP	<ul> <li>Fiber optic communications</li> </ul>	• Lasers			
	<ul> <li>Satellite communications</li> </ul>				
	<ul> <li>High-performance transistors</li> </ul>				
	<ul> <li>Automotive collision avoidance radar</li> </ul>				
Ge	<ul> <li>Satellite and terrestrial solar cells</li> </ul>	<ul> <li>Optical applications</li> </ul>			

Substrates. We currently sell compound substrates manufactured from GaAs and InP, as well as single-element substrates manufactured from Ge. We supply GaAs substrates in two-, three-, four-, five-

and six-inch diameters. We manufacture InP substrates in two-, three-and four-inch diameters, and Ge substrates in two- and four-inch diameters.

*Materials*. We participate in five joint ventures in China that sell raw materials used by us in substrate manufacturing and by others. These joint ventures produce products including 99.99% pure gallium (4N Ga), high purity gallium, arsenic, and germanium, germanium dioxide, paralytic boron nitride (pBN) crucibles, and boron oxide (B2O3). In 2009 and 2008, sales of raw materials by these joint ventures to third parties were approximately \$6.4 million and \$17.2 million, respectively.

The primary costs of manufacturing compound semiconductor substrates are labor, raw materials and manufacturing equipment such as crystal growing furnaces. Accordingly, substrate manufacturers, including AXT, are continuing to shift production to larger wafers to reduce manufacturing costs.

#### Customers

We sell our compound semiconductor substrates and materials worldwide. Our top revenue producing customers in 2009 by revenue were:

- Arima Optoelectronics Corporation
- Avago Technologies Manufacturing (Singapore) Pte. Ltd.
- AZUR Space Solar Power GmbH
- Beijing Compound Crystal Technology, Ltd.
- Hitachi Cable, Ltd.

- IQE Group
- Osram Opto
   Semiconductors GmbH
- Picogiga International SAS
- Recapture Metals Limited
- Sumika Electronic Materials Co., Ltd.

- Sumitomo Chemical Co., Ltd.
- Visual Photonics Epitaxy Co., Ltd.
- WIN Semiconductors Corporation
- Xiamen Changelight Co., Ltd.
- Xiamen Sanan
   Optoelectronics Co., Ltd.

Historically, we have sold a significant portion of our products in any particular period to a limited number of customers. IQE Group (IQE, Inc., IQE RF, LLC, IQE (Europe) Limited, MBE Technology Pte. Ltd.) represented 15% of our revenue for the year ended December 31, 2009. One customer represented greater than 10% of revenue for the year ended December 31, 2008, at 19%, and only one customer represented greater than 10% of revenue for the year ended December 31, 2007 at 12%. Our top five customers represented 41% of our revenue for the year ended December 31, 2009, 46% of our revenue for the year ended December 31, 2008, and 40% of our revenue for the year ended December 31, 2007. We expect that sales to a small number of customers will continue to comprise a significant portion of our revenue in the future.

There were three third party customers for our raw materials that accounted for greater than 10% of revenue from raw materials sales at 18%, 13% and 11% for the year ended December 31, 2009, and two third party customers for our raw materials that accounted for greater than 10% of revenue from raw materials sales at 28% and 16% for the year ended December 31, 2008 and three third party customers for our raw materials that accounted for greater than 10% of revenue from raw materials sales at 22%, 14% and 13% for the year ended December 31, 2007. Our joint ventures are a key strategic benefit for us as they give us a strong competitive advantage of allowing our customers to work with one supplier for all their substrate and raw material requirements. Our raw materials customers include chemical companies; additionally, we sell raw materials to some of our competitors of our substrate business.

#### Manufacturing, Raw Materials and Supplies

We believe that our operating results reflect our manufacturing efficiency and high product yields and we continually emphasize quality and process control throughout our manufacturing operations. We manufacture all of our products at our facilities in Beijing, China, which generally has favorable costs for facilities and labor compared to manufacturing in the United States. We believe that our capital

investment and subsequent operating costs are lower for our manufacturing facilities in China relative to the U.S. Although some of our manufacturing operations are fully automated and computer monitored or controlled, enhancing reliability and yield, we expect to continue to improve our processes and increase the number of automated processes in 2010. We use proprietary equipment in our substrate manufacturing operations to protect our intellectual property and control the timing and pace of capacity additions. All of our manufacturing facilities are ISO 9001 or 9002 certified. In January 2006, our Beijing facility successfully passed the ISO 14001 certification audit.

We have five joint ventures in China that provide us favorable pricing, reliable supply and shorter lead-times for raw materials central to our manufactured products including gallium, arsenic, germanium, germanium dioxide, pyrolitic boron nitride crucibles, and boron oxide. We believe that these joint ventures and investments will be advantageous in procuring materials to support our growth and cost management goals. In addition, we purchase supply parts, components and raw materials from several other domestic and international suppliers. We depend on a single or limited number of suppliers for certain critical materials used in the production of our substrates, such as quartz tubing, and polishing solutions. We generally purchase these materials through standard purchase orders and not pursuant to long-term supply contracts. Although we seek to maintain sufficient inventory levels of certain materials to guard against interruptions in supply and to meet our near term needs, and have to date been able to obtain sufficient supplies of materials in a timely manner in the future we may experience shortages of certain key materials, such as gallium.

Our five joint ventures include three companies that are included in our consolidated financial statements as consolidated entities: Beijing JiYa Semiconductor Material Co., Ltd. (JiYa), Nanjing Jin Mei Gallium Co., Ltd. (Jin Mei), and Beijing BoYu Semiconductor Vessel Craftwork Technology Co., Ltd (BoYu). Our ownership in JiYa is 46%. We continue to consolidate JiYa as we have significant influence in management and have a majority control of the board. Our chief executive officer is chairman of the board, while our vice president of production, our China vice president of administration and our president of AXT China operations are also members of the board. Our ownership of Jin Mei is 83%. We continue to consolidate Jin Mei as we have significant influence in management and have a majority control of the board. Our chief executive officer is chairman of the board, while our China vice president of administration and our president of AXT China operations are also members of the board. We have significant influence over management of BoYu, have a controlling financial interest of 70%, and have a majority control of the board. Our chief executive officer is chairman of the board, while our China vice president of administration and our president of AXT China operations are also members of the board.

Although we have representation on the boards of directors of each of these companies, the daily operations of each of these companies are managed by local management and not by us. Decisions concerning their respective short term strategy and operations, any capacity expansion and annual capital expenditures, and decisions concerning sales of finished product, are made by local management without input from us.

JiYa is housed in and receives services from an affiliated aluminum plant and has in the past had to source finished products from another independent third party supplier in order to meet customer supply obligations when operations of its affiliated aluminum plant have been suspended or curtailed, resulting in a loss of supplies to the joint venture. In addition, even when capacity has been fully utilized, JiYa has had to source finished products from an independent third party supplier when demand has exceeded the joint venture's capacity, and will continue to source finished products from this independent third party supplier if it experiences supply shortages or if customer demand again exceeds its capacity.

The investment balances for the other two joint ventures are accounted for under the equity method are included in other assets in the consolidated balance sheets and totaled \$4.2 million and

\$3.7 million as of December 31, 2009 and 2008, respectively. We own 25% of the ownership interests in each of these companies.

#### Sales and Marketing

We advertise in trade publications, distribute promotional materials, conduct marketing and sales programs, and participate in industry trade shows and conferences in order to raise market awareness of our products.

We sell our substrate products directly to customers through our direct sales force in the U.S. and through independent sales representatives in France, Germany, Japan, South Korea, Taiwan and the United Kingdom. Our direct sales force is knowledgeable in the use of compound and single-element substrates. Our applications engineers work with customers during all stages of the substrate manufacturing process, from developing the precise composition of the substrate through manufacturing and processing the substrate to the customer's specifications. We believe that maintaining a close relationship with customers and providing them with ongoing engineering support improves customer satisfaction and will provide us with a competitive advantage in selling other substrates to our customers.

International Sales. International sales are an important part of our business. Sales to customers outside North America (primarily United States) accounted for 81% of our revenue in 2009, 74% of our revenue in 2008, and 80% of our revenue in 2007. The primary markets for sales of our substrate products outside of the United States are to customers located in Asia and Western Europe.

We also sell through our joint ventures raw materials including 4N, 6N, and 7N gallium, boron oxide, germanium, arsenic, germanium dioxide, paralytic boron nitride crucibles used in crystal growth and parts for MBE (Molecular Beam Epitaxy). Our joint ventures are a key strategic benefit for us as they give us a strong competitive advantage of allowing our customers to work with one supplier for all their substrate and raw material requirements. Our joint ventures have their own separate sale forces where they also sell direct to their own customers in addition to their supply of raw materials to us.

#### **Research and Development**

To maintain and improve our competitive position, we focus our research and development efforts on designing new proprietary processes and products, improving the performance of existing products and reducing manufacturing costs. We have assembled a multi-disciplinary team of skilled scientists, engineers and technicians to meet our research and development objectives.

Our current substrate research and development activities focus on continued development and enhancement of GaAs, InP and Ge substrates, including haze reduction, improved yield, enhanced surface and electrical characteristics and uniformity, greater substrate strength and increased crystal length. During 2008 and 2009, we continued to focus research and development resources to reduce surface quality problems we experienced with our GaAs and InP substrates for some customers, particularly related to surface morphology. We continue to work on issues related to surface quality, and expect that research and development in this area will continue in 2010.

Research and development expenses were \$1.6 million in 2009, compared with \$2.2 million in 2008 and \$1.7 million in 2007. We expect our rate of expenditure on research and development costs in 2010 to increase as we continue to improve on processes and also develop 6" Ge wafers. Research and development at our joint ventures has been minimal.

#### Competition

The semiconductor substrate industry is characterized by rapid technological change and price erosion, as well as intense foreign and domestic competition. We believe we currently have a leading

position in the market for GaAs substrates for HBLED applications primarily as a result of our expertise in VGF technology, overall product quality, response times and prices. However, we face actual and potential competition from a number of established domestic and international companies who may have advantages not available to us including substantially greater financial, technical and marketing resources; greater name recognition; and more established relationships in the industry and may utilize these advantages to expand their product offerings more quickly, adapt to new or emerging technologies and changes in customer requirements more quickly, and devote greater resources to the marketing and sale of their products.

We believe that the primary competitive factors in the markets in which our substrate products compete are:

- quality;
- price;
- performance;
- meeting customer specifications; and
- customer support and satisfaction.

Our ability to compete in target markets also depends on factors such as:

- the timing and success of the development and introduction of new products and product features by us and our competitors;
- the availability of adequate sources of raw materials;
- protection of our products by effective use of intellectual property laws; and
- general economic conditions.

A compound semiconductor substrate customer typically has two or three substrates suppliers that it has qualified for the production of its products. These qualified suppliers must meet industry-standard specifications for quality, on-time delivery and customer support. Once a substrate supplier has qualified with a customer, price, consistent quality and current and future product delivery lead times become the most important competitive factors. A supplier that cannot meet customers' current lead times or that a customer perceives will not be able to meet future demand and provide consistent quality can lose current market share. Our primary competition in the market for compound semiconductor substrates includes China Crystal Technologies, Freiberger Compound Materials, Japan Energy, Mitsubishi Chemical Corporation, and Sumitomo Electric Industries. We believe that at least two of our competitors are shipping high volumes of GaAs substrates manufactured using a technique similar to our VGF technique. In addition, as a result of quality problems that we have experienced, we believe that some customers have allocated some of their requirements for VGF grown substrates across more competitors and we believe that we may have lost revenue and market share as a result of these customer decisions. In addition, we also face competition from compound semiconductor device manufacturers that produce substrates for their own internal use, including Hitachi, and from companies such as IBM that are actively developing alternative compound semiconductor materials.

We are the only compound semiconductor substrate supplier to offer a full suite of raw materials and we believe that it gives us a strong competitive advantage in our marketplace.

### **Protection of our Intellectual Property**

Our success and the competitive position of our VGF technique depend on our ability to maintain trade secrets and other intellectual property protections. We rely on a combination of patents, trademark and trade secret laws, non-disclosure agreements and other intellectual property protection

methods to protect our proprietary technology. We believe that, due to the rapid pace of technological innovation in the markets for our products, our ability to establish and maintain a position of technology leadership depends as much on the skills of our development personnel as upon the legal protections afforded our existing technologies. To protect our trade secrets, we take certain measures to ensure their secrecy, such as executing non-disclosure agreements with our employees, customers and suppliers. However, reliance on trade secrets is only an effective business practice insofar as trade secrets remain undisclosed and a proprietary product or process is not reverse engineered or independently developed.

To date, we have been issued six patents that relate to our VGF products and processes, three (3) in the U.S., two (2) in Japan and one (1) in China, which expire in 2016 (1st U.S.), 2017 (1st JP), 2018 (CN), 2021 (2nd JP), 2022 (2nd U.S.), 2027 (3rd U.S.). We have eight (8) U.S. patent applications pending and nineteen (19) foreign patent applications pending (including applications in Patent Cooperation Treaty ("PCT") and national stage processes) in Europe, Canada, China, Japan and South Korea, which are based on our US patents and/or pertain to our VGF-related wafer manufacturing processes.

In the normal course of business, we periodically receive and make inquiries regarding possible patent infringement. In dealing with such inquiries, it may become necessary or useful for us to obtain or grant licenses or other rights. However, there can be no assurance that such licenses or rights will be available to us on commercially reasonable terms. If we are not able to resolve or settle claims, obtain necessary licenses on commercially reasonable terms and/or successfully prosecute or defend our position, our business, financial condition and results of operations could be materially and adversely affected.

#### **Environmental Regulations**

We are subject to federal, state and local environmental laws and regulations, including laws in China as well as the U.S. These laws, rules and regulations govern the use, storage, discharge and disposal of hazardous chemicals during manufacturing, research and development and sales demonstrations. We maintain a number of environmental, health and safety programs that are primarily preventive in nature. As part of these programs, we regularly monitor ongoing compliance. If we fail to comply with applicable regulations, we could be subject to substantial liability for clean-up efforts, personal injury and fines or suspension or cessation of our operations.

#### **Employees**

As of December 31, 2009, we had 1,091 employees, of whom 867 were principally engaged in manufacturing, 131 in sales and administration, and 93 in research and development. Of these employees, 28 were located in the U.S., and 1,063 in China. As of December 31, 2008, we had 1,120 employees including employees of our consolidated joint ventures, of whom 902 were principally engaged in manufacturing, 125 in sales and administration, and 93 in research and development. Of these employees, 39 are located in the U.S., and 1,081 in China.

Some of our employees in China are represented by a union, but we have never experienced a work stoppage. We consider our relations with our employees to be good.

#### **Geographical Information**

Please see Note 14 of our Notes to Consolidated Financial Statements for information regarding our foreign operations, and see "Risks related to international aspects of our business" under Item 1A. Risk Factors for further information on risks attendant to our foreign operations and dependence.

#### **Available Information**

Our principal executive offices are located at 4281 Technology Drive, Fremont, CA 94538, and our main telephone number at this address is (510) 683-5900. The public may read and copy any material we file with the Securities and Exchange Commission, or SEC, at the SEC's Public Reference Room at 100 F Street, N.E., Washington D.C., 20549. The public may obtain information on the operations of the Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC maintains an Internet site <a href="http://www.sec.gov">http://www.sec.gov</a> that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC.

Our web site is www.axt.com. We make available, free of charge, on or through our web site, our annual, quarterly and current reports, and any amendments to those reports as soon as reasonably practicable after those reports are filed with the SEC. The information on our web site does not constitute a part of this Annual Report on Form 10-K and is not incorporated herein.

#### Item 1A. Risk Factors

For ease of reference, we have divided these risks and uncertainties into the following general categories:

- Risks related to our general business;
- Risks related to international aspects of our business;
- Risks related to our financial results and capital structure;
- Risks related to our intellectual property; and
- Risks related to compliance and other legal matters.

#### **Risks Related to Our General Business**

#### Current global economic conditions may have an impact on our business and financial condition in ways that we currently cannot predict.

Our operations and financial results depend on worldwide economic conditions and their impact on levels of business spending, which have deteriorated significantly in many countries and regions and may remain depressed for the foreseeable future. Uncertainties in the financial and credit markets have caused our customers to postpone deliveries of ordered systems and placement of new orders. Continued uncertainties may reduce future sales of our products and services. The revenue growth and profitability of our business depends on the overall demand for our substrates, and we are particularly dependent on the market conditions for the wireless, solid-state illumination, fiber optics and telecommunications industries. Because our sales are primarily to major corporate customers whose businesses fluctuate with general economic and business conditions, a softening of demand for products that use our substrates, caused by a weakening economy, may result in decreased revenue. Customers may find themselves facing excess inventory from earlier purchases, and may defer or reconsider purchasing products due to the downturn in their business and in the general economy. If the current market conditions continue to deteriorate, we may experience increased collection times and greater write-offs, either of which could have a material adverse effect on our cash flow.

In addition, the tightening of credit markets and concerns regarding the availability of credit may make it more difficult for our customers to raise capital, whether debt or equity, to finance their purchases of capital equipment, including the products we sell. Delays in our customers' ability to obtain such financing, or the unavailability of such financing, would adversely affect our product sales and revenues and therefore harm our business and operating results. We cannot predict the timing, duration of or effect on our business of the economic slowdown or the timing or strength of a subsequent recovery.

Ongoing financial market volatility and adverse changes in the domestic and global economic environment could have a significant adverse impact on our business, financial condition and operating results.

Our business and operating results have been significantly impacted by general economic conditions in 2008 and 2009, and we could experience significant adverse effects if there is any further decline in worldwide markets and overall economic difficulties. The U.S. and global economy has experienced a significant downturn due to the effects of the credit market crisis, slower economic activity and a generally negative economic outlook, a decrease in consumer and business confidence and liquidity concerns. Global market and economic conditions continue to be volatile. The possible duration and severity of this adverse economic cycle is unknown. Although the Company remains well-capitalized and has not suffered any liquidity issues as a result of these recent events, the cost and availability of funds may be adversely affected by illiquid credit markets. Continued turbulence in U.S. and international markets and economies may adversely affect the Company's liquidity, financial

condition and profitability. Another severe or prolonged economic downturn could result in a variety of risks to our business, including:

- increased volatility in our stock price;
- increased volatility in foreign currency exchange rates;
- delays in, or curtailment of, purchasing decisions by our customers or potential customers either as a result of overall economic uncertainty or as a result of their inability to access the liquidity necessary to engage in purchasing initiatives;
- increased credit risk associated with our customers or potential customers, particularly those that may operate in industries most affected by the economic downturn, such as financial services; and
- impairment of our intangible or other assets.

We have experienced and expect to continue to experience delays in customer purchasing decisions or disruptions in normal volume of customer orders that we believe are in part due to the uncertainties in the global economy and an adverse impact on consumer spending. To the extent that the current economic downturn worsens or persists, or any of the above risks occur, our business and operating results could be significantly and adversely affected.

#### The average selling prices of our products may decline over relatively short periods, which may reduce our gross margins.

The market for our products is characterized by declining average selling prices resulting from factors such as increased competition, overcapacity, the introduction of new products and decreased sales of products incorporating our products and average selling prices for our products may decline over relatively short time periods. We have in the past experienced, and in the future may experience, substantial period-to-period fluctuations in operating results due to declining average selling prices. On average, we have experienced average selling price declines over the course of the last twelve months of anywhere from approximately 5 to 20% per year depending on the product. It is also possible for the pace of average selling price declines to accelerate beyond these levels for certain products in a commoditizing market. We anticipate that average selling prices will decrease in the future in response to the current difficult economic environment, product introductions by competitors or us, or by other factors, including pricing pressures from significant customers. When our average selling prices decline, our gross profits decline unless we are able to sell more products or reduce the cost to manufacture our products. We generally attempt to combat average selling price declines by improving yields, manufacturing efficiency and working to reduce the costs of our raw materials and of manufacturing our products. We have in the past and may in the future experience declining sales prices, which could negatively impact our revenues, gross profits and financial results. We therefore need to sell our current products in increasing volumes to offset any decline in their average selling prices, and introduce new products, which we may not be able to do, or do on a timely basis.

We may be unable to reduce the cost of our products sufficiently to enable us to compete with others. Our cost reduction efforts may not allow us to keep pace with competitive pricing pressures and could adversely affect our margins. In order to remain competitive, we must continually reduce the cost of manufacturing our products through design and engineering changes. We cannot assure you that any changes effected by us will result in sufficient cost reductions to allow us to reduce the price of our products to remain competitive or improve our gross margins.

#### Shifts in our product mix may result in declines in gross margins.

Our gross profit margins vary among our product families, and are generally higher on our larger diameter wafers. In addition, historically our gross margins have been higher on our raw materials sales. Accordingly, our overall gross margins have fluctuated from period to period as a result of shifts in product mix, the introduction of new products, decreases in average selling prices for products and our ability to reduce product costs, and these fluctuations are expected to continue in the future.

We do not control the prices at which our joint venture companies sell their raw materials products to other third parties. However, as we consolidate the results of three of these companies with our own, any reduction in their gross margins could have a significant, adverse impact on our overall gross margins. One or more of our joint venture companies has in the past and may in the future sell raw materials at significantly reduced prices in order to gain volume sales, or sales to new customers. In such an event, our gross margin may be adversely impacted. In addition, one of our joint venture companies has in the past been subject to capacity constraints requiring it to source product from other third party suppliers in order to meet customer demand, resulting in decreased gross margin and adversely impacting our gross margin. This joint venture may in the future continue to experience such capacity restraints, causing our gross margin, and consequently our operating results, to be adversely impacted.

# The cyclical nature of the semiconductor industry may limit our ability to maintain or increase net sales and operating results during industry downturns.

The semiconductor industry is highly cyclical and periodically experiences significant economic downturns characterized by diminished product demand, resulting in production overcapacity and excess inventory in the markets we serve. A downturn can result in lower unit volumes and rapid erosion of average selling prices. The semiconductor industry has experienced significant downturns, often in connection with, or in anticipation of, maturing product cycles of both semiconductor companies' and their customers' products or a decline in general economic conditions. We have experienced these conditions in our business in the past, including most recently in 2009, and may experience renewed, and possibly more severe and prolonged, downturns in the future as a result of such cyclical changes. This may reduce our results of operations and the value of our business.

Our continuing business depends in significant part upon manufacturers of electronic and opto-electronic compound semiconductor devices, as well as the current and anticipated market demand for these devices and products using these devices. As a supplier to the compound semiconductor industry, we are subject to the business cycles that characterize the industry. The timing, length and volatility of these cycles are difficult to predict. The compound semiconductor industry has historically been cyclical because of sudden changes in demand, the amount of manufacturing capacity and changes in the technology employed in compound semiconductors. The rate of changes in demand, including end demand, is high, and the effect of these changes upon us occurs quickly, exacerbating the volatility of these cycles. These changes have affected the timing and amounts of customers' purchases and investments in new technology. These industry cycles create pressure on our revenue, gross margin and net income (loss).

The industry has in the past experienced periods of oversupply that result in significantly reduced demand and prices for compound semiconductor devices and components, including our products, both as a result of general economic changes and overcapacity. When these periods occur and our operating results and financial condition are adversely affected, oversupply creates pressure on our revenue, gross margins and net income (loss). Inventory buildups in telecommunications products and slower than expected sales of computer equipment resulted in overcapacity and led to reduced sales by our customers, and therefore reduced purchases of our products. During periods of weak demand such as those experienced historically, customers typically reduce purchases, delay delivery of products and/or

cancel orders of component parts such as our products. Increased price competition has resulted, causing pressure on our net sales, gross margin and net income (loss). We experienced cancellations, price reductions, delays and push-outs of orders, which have resulted in reduced revenue. If the economic downturn continues, further order cancellations, reductions in order size or delays in orders could occur and would materially adversely affect our business and results of operations. Actions to reduce our costs, such as those we have recently taken, may be insufficient to align our structure with prevailing business conditions. We may be required to undertake additional cost-cutting measures, and may be unable to invest in marketing, research and development and engineering at the levels we believe are necessary to maintain our competitive position. Our failure to make these investments could seriously harm our business.

We base our planned operating expenses in part on our expectations of future revenue, and a significant portion of our expenses is relatively fixed in the short term. If revenue for a particular quarter is lower than we expect, we likely will be unable to proportionately reduce our operating expenses for that quarter, which would harm our operating results for that quarter.

#### We depend on high utilization of our manufacturing capacity.

An important factor in our success is the extent to which we are able to utilize the available capacity in our Beijing facility. As many of our costs are fixed, a reduction in capacity utilization, as well as changes in other factors such as reduced yield or unfavorable product mix, could reduce our profit margins and adversely affect our operating results. A number of factors and circumstances may reduce utilization rates, including periods of industry overcapacity, low levels of customer orders, operating inefficiencies, mechanical failures and disruption of operations due to expansion, power interruptions, fire, flood or other natural disasters or calamities.

# The Chinese Government has previously imposed manufacturing restrictions that, if imposed again in the future on our facilities, could materially and adversely impact our results of operations and our financial condition.

The Chinese government has in the past imposed restrictions on manufacturing facilities, such as the restrictions imposed on polluting factories for the 2008 Olympics and Paralympics, including a shut down of material transportation and power plants to clean the air. If, in the future, restrictions are imposed on our operations, our ability to meet customer demand or supply current or new orders would be significantly impacted. Customers could then be required to purchase product from our competitors, causing our competitors to take market share from us, and could result in our customers supplying future needs from our competitors. Restrictions on material transport could limit our ability to transport our product, and could result in bottlenecks at shipping ports, limiting our ability to deliver products to our customers. During periods of such restrictions, we may increase our stock of critical materials (such as arsenic, gallium, and other chemicals) for use during the period that these restrictions are likely to last, which will increase our use of cash and increase in inventory level, such as occurred during 2008. Any of these restrictions could materially and adversely impact our results of operations and our financial condition.

#### Defects in our products could diminish demand for our products.

Our products are complex and may contain defects. We have experienced quality control problems with many of our products, which caused customers to return products to us, reduce orders for our products, or both. Although our quality has improved, resulting in some increases in product sales, we believe that we continue to experience some reduction in orders as a result of our prior product quality problems. If we continue to experience quality control problems, or experience these or other problems in new products, customers may cancel or reduce orders or purchase products from our competitors, we may be unable to maintain or increase sales to our customers and sales of our products could

decline. Defects in our products could cause us to incur higher manufacturing costs and suffer product returns and additional service expenses, all of which could adversely impact our operating results.

If new products developed by us contain defects when released, our customers may be dissatisfied and we may suffer negative publicity or customer claims against us, lose sales or experience delays in market acceptance of our new products.

#### The loss of one or more of our key substrate customers would significantly hurt our operating results.

A small number of substrate customers have historically accounted for a substantial portion of our total revenue. Our top five customers represented 41% of revenue for the year ended December 31, 2009, 46% of revenue for the year ended December 31, 2008, and 40% of revenue for the year ended December 31, 2007. We expect that a significant portion of our future revenue will continue to be derived from a limited number of substrate customers. Most of our customers are not obligated to purchase a specified quantity of our products or to provide us with binding forecasts of product purchases. In addition, our customers may reduce, delay or cancel orders at any time without any significant penalty. In the past, we have experienced slower bookings, significant push-outs and cancellation of orders from customers. If we lose a major customer or if a customer cancels, reduces or delays orders, our revenue would decline. In addition, customers that have accounted for significant revenue in the past may not continue to generate revenue for us in any future period. Any delay in scheduled shipments of our products could cause revenue to fall below our expectations and the expectations of market analysts or investors, causing our stock price to decline.

#### Our results of operations may suffer if we do not effectively manage our inventory.

We must manage our inventory of component parts, work-in-process and finished goods effectively to meet changing customer requirements, while keeping inventory costs down and improving gross margins. Some of our products and supplies have in the past and may in the future become obsolete while in inventory due to changing customer specifications, or become excess inventory due to decreased demand for our products and an inability to sell the inventory within a foreseeable period. Furthermore, if current costs of production increase or sales prices drop below the standard prices at which we value inventory, we may need to take a charge for a reduction in inventory values. We have in the past had to take inventory valuation and impairment charges. Any future unexpected changes in demand or increases in costs of production that cause us to take additional charges for un-saleable, obsolete or excess inventory, or to reduce inventory values, could adversely affect our results of operations.

#### If we have low product yields, the shipment of our products may be delayed and our operating results may be adversely impacted.

Our products are manufactured using complex technologies, and the number of usable substrates we produce can fluctuate as a result of many factors, including:

- impurities in the materials used;
- contamination of the manufacturing environment;
- substrate breakage;
- equipment failure, power outages or variations in the manufacturing process; and
- performance of personnel involved in the manufacturing process.

If our yields decrease, our revenue could decline if we are unable to produce needed product on time. At the same time, our manufacturing costs could remain fixed, or could increase. We have experienced product shipment delays and difficulties in achieving acceptable yields on both new and

older products, and delays and poor yields have adversely affected our operating results. We may experience similar problems in the future and we cannot predict when they may occur or their severity. In particular, many of our manufacturing processes are new and are still being refined, which can result in lower yields.

If our manufacturing processes result in defects in our products making them unfit for use by our customers, our products would be rejected, resulting in compensation costs paid to our customers, and possible disqualification. This could lead to revenue loss and market share loss.

If we do not successfully develop new products to respond to rapidly changing customer requirements, our ability to generate revenue, obtain new customers, and retain existing customers may suffer.

Our success depends on our ability to offer new products and product features that incorporate leading technology and respond to technological advances. In addition, our new products must meet customer needs and compete effectively on quality, price and performance. The life cycles of our products are difficult to predict because the markets for our products are characterized by rapid technological change, changing customer needs and evolving industry standards. If our competitors introduce products employing new technologies or performance characteristics, our existing products could become obsolete and unmarketable. During the past three years, we have seen our competitors selling more substrates manufactured using a crystal growth technology similar to ours, which has eroded our technological differentiation. Other companies, including TriQuint Semiconductors, are actively developing substrate materials that could be used to manufacture devices that could provide the same high-performance, low-power capabilities as GaAs- and InP-based devices at competitive prices. If these substrate materials or VGF-derived products are successfully developed and semiconductor device manufacturers adopt them, demand for our GaAs substrates could decline and our revenue could suffer.

The development of new products can be a highly complex process, and we may experience delays in developing and introducing new products. Any significant delays could cause us to fail to timely introduce and gain market acceptance of new products. Further, the costs involved in researching, developing and engineering new products could be greater than anticipated. If we fail to offer new products or product enhancements or fail to achieve higher quality products, we may not generate sufficient revenue to offset our development costs and other expenses or meet our customers' requirements.

#### Intense competition in the markets for our products could prevent us from increasing revenue and sustaining profitability.

The markets for our products are intensely competitive. We face competition for our substrate products from other manufacturers of substrates, such as Freiberger Compound Materials, Hitachi Cable and Sumitomo Electric, from semiconductor device manufacturers that produce substrates for their own use, and from companies, such as TriQuint Semiconductors, that are actively developing alternative materials to GaAs and marketing semiconductor devices using these alternative materials. We believe that at least two of our major competitors are shipping high volumes of GaAs substrates manufactured using a technique similar to our VGF technique. Other competitors may develop and begin using similar technology. If we are unable to compete effectively, our revenue may not increase and we may be unable to remain profitable on a quarterly basis. We face many competitors that have a number of significant advantages over us, including:

- greater experience in the business;
- more manufacturing experience;
- extensive intellectual property;

- broader name recognition; and
- significantly greater financial, technical and marketing resources.

Our competitors could develop new or enhanced products that are more effective than our products are.

The level and intensity of competition has increased over the past year and we expect competition to continue to increase in the future. Competitive pressures caused by the current economic conditions have resulted in reductions in the prices of our products, and continued or increased competition could reduce our market share, require us to further reduce the prices of our products, affect our ability to recover costs and result in reduced gross margins.

In addition, new competitors have and may continue to emerge, such as a small crystal growing company established by a former employee of ours in China that is supplying ingots to the market. While new competitors such as this company currently do not appear to be fully competitive, competition from sources such as this could increase, particularly if these competitors are able to obtain large capital investments.

#### Demand for our products may decrease if our customers experience difficulty manufacturing, marketing or selling their products.

Our products are used as components in our customers' products. Accordingly, demand for our products is subject to factors affecting the ability of our customers to introduce and market their products successfully, including:

- the competition our customers face in their particular industries;
- the technical, manufacturing, sales and marketing and management capabilities of our customers;
- the financial and other resources of our customers; and
- the inability of our customers to sell their products if they infringe third-party intellectual property rights.

If demand for the end-user applications for which our products are used decreases, or our customers are unable to develop, market and sell their products, demand for our products will decrease.

#### The financial condition of our customers may affect their ability to pay amounts owed to us.

Many of our customers are facing business downturns that have reduced their cash balances and their prospects. We frequently allow our customers extended payment terms after shipping products to them. Subsequent to our shipping a product, some customers have been unable to make payments when due, reducing our cash balances and causing us to incur charges to allow for a possibility that some accounts might not be paid. Customers may also be forced to file for bankruptcy. If our customers do not pay their accounts when due, we will be required to incur charges that would reduce our earnings.

We purchase critical raw materials and parts for our equipment from single or limited sources, and could lose sales if these sources fail to fill our needs.

We depend on a limited number of suppliers for certain raw materials, components and equipment used in manufacturing our products, including key materials such as quartz tubing, polishing solutions and paralytic boron nitride. Although several of these raw materials are purchased from suppliers in which we hold an ownership interest, we generally purchase these materials through standard purchase

orders and not pursuant to long-term supply contracts and no supplier guarantees supply of raw materials or equipment to us. If we lose any of our key suppliers, our manufacturing efforts could be significantly hampered and we could be prevented from timely producing and delivering products to our customers. Prior to investing in our raw material joint ventures, we sometimes experienced delays obtaining critical raw materials and spare parts, including gallium, due to shortages of these materials and could experience such delays again in the future due to shortages of materials and may be unable to obtain an adequate supply of materials. These shortages and delays could result in higher materials costs and cause us to delay or reduce production of our products. If we have to delay or reduce production, we could fail to meet customer delivery schedules and our revenue and operating results could suffer.

We have made and may continue to make strategic investments in raw materials suppliers, which may not be successful and may result in the loss of all or part of our investment.

We have made investments through our five joint ventures in raw material suppliers in China, which provide us with opportunities to gain supplies of key raw materials that are important to our substrate business. These affiliates each have a market beyond that provided by us. We do not have influence over all of these companies, each of which is located in China, and in some we have made only a strategic, minority investment. We may not be successful in achieving the financial, technological or commercial advantage upon which any given investment is premised, and we could end up losing all or part of our investment.

#### Our substrate products have a long qualification cycle that makes it difficult to plan our expenses and forecast our results.

Customers typically place orders with us for our substrate products three months to a year or more after our initial contact with them. The sale of our products may be subject to delays due to our customers' lengthy internal budgeting, approval and evaluation processes. During this time, we may incur substantial expenses and expend sales, marketing and management efforts while the customers evaluate our products. These expenditures may not result in sales of our products. If we do not achieve anticipated sales in a period as expected, we may experience an unplanned shortfall in our revenue. As a result, we may not be able to cover expenses, causing our operating results to vary. In addition, if a customer decides not to incorporate our products into its initial design, we may not have another opportunity to sell products to this customer for many months or even years. In the current competitive and economic climate, the average sales cycle for our products has lengthened even further and is expected to continue to make it difficult to forecast our future sales accurately. We anticipate that sales of any future substrate products will also have lengthy sales cycles and will, therefore, be subject to risks substantially similar to those inherent in the lengthy sales cycles of our current substrate products.

Problems incurred by our joint ventures or venture partners could result in a material adverse impact on our financial condition or results of operations.

We have invested in five joint venture operations in China that produce products including 99.99% pure gallium (4N Ga), high purity gallium, arsenic, germanium, germanium dioxide, paralytic boron nitride (pBN) crucibles and boron oxide. We purchase a portion of the materials produced by these ventures for our use and sell the remainder of their production to third parties. Our ownership interest in these entities ranges from 25% to 83%. We consolidate the three joint ventures in which we own a majority or controlling financial interest and employ equity accounting for the two joint ventures in which we have a 25% interest. Several of these ventures occupy space within larger facilities owned and/or operated by one of the other venture partners. Several of these venture partners are engaged in other manufacturing activities at or near the same facility. In some facilities, we share access to certain functions, including water, hazardous waste treatment or air quality treatment. If any of our joint

venture partners in any of these five ventures experiences problems with its operations, disruptions of our joint venture operations could result, having a material adverse effect on the financial condition and results of operation of our joint ventures, and correspondingly on our financial condition or results of operations. For example, during 2008, our gallium joint venture in China, which is housed in and receives services from an affiliated aluminum plant, ceased production for five weeks during the fourth quarter of 2008 as a result of supply shortage from the aluminum plant which had reduced production and halted operations due to dropping aluminum prices in the second half of 2008. Accordingly, in order to meet customer supply obligations, our joint venture had to source finished products from another independent third party supplier, resulting in low gross margin for the quarter. Our joint venture may in the future continue to experience shortages in supply from the aluminum plant, requiring it to again source finished products from a third party, adversely impacting our gross margins.

In addition, if any of our joint ventures or venture partners with which our joint ventures share facilities is deemed to have violated applicable laws, rules or regulations governing the use, storage, discharge or disposal of hazardous chemicals during manufacturing, research and development, or sales demonstrations, the operations of our joint ventures could be adversely affected and we could be subject to substantial liability for clean-up efforts, personal injury and fines or suspension or cessation of our joint venture operations as a result of the actions of the joint ventures or other venture partners. Employees working for our joint ventures or any of the other venture partners could bring litigation against us as a result of actions taken at the joint venture or venture partner facilities, even though we are not directly controlling the operations, including actions for exposure to chemicals or other hazardous materials at the facilities of our joint ventures or the facilities of any venture partner that are shared by our joint ventures. While we would expect to defend ourselves vigorously in any litigation that is brought against us, litigation is inherently uncertain and it is possible that our business, financial condition, results of operations or cash flows could be affected. Even if we are not deemed responsible for the actions of the joint ventures or venture partners, litigation could be costly, time consuming to defend and divert management attention; in addition, pursuit of us could occur if we are deemed to be the most financially viable of the partners.

Going forward, we believe that investing in additional joint ventures will be important to remaining competitive in our marketplace and ensuring a supply of critical raw materials. However, we may not be able to identify complementary joint venture opportunities or, even once opportunities are identified, we may not be able to reach agreement on the terms of the venture with the other venture partners. Additional joint ventures could cause us to incur contingent liabilities or other expenses, any of which could adversely affect our financial condition and operating results.

Since all of our joint venture activity is expected to occur in China, these activities could subject us to a number of risks associated with conducting operations internationally, including:

- difficulties in managing geographically disparate operations;
- difficulties in enforcing agreements through non-U.S. legal systems;
- unexpected changes in regulatory requirements that may limit our ability to export the venture products or sell into particular jurisdictions or impose multiple conflicting tax laws and regulations;
- political and economic instability, civil unrest or war;
- terrorist activities that impact international commerce;
- difficulties in protecting our intellectual property rights, particularly in countries where the laws and practices do not protect proprietary rights to as great an extent as do the laws and practices of the United States;

- changing laws and policies affecting economic liberalization, foreign investment, currency convertibility or exchange rates, taxation or employment; and
- nationalization of foreign-owned assets, including intellectual property.

#### The effect of terrorist threats and actions on the general economy could decrease our revenue.

The United States continues to be on alert for terrorist activity. The potential near- and long-term impact terrorist activities may have in regards to our suppliers, customers and markets for our products and the U.S. economy is uncertain. There may be embargos of ports or products, or destruction of shipments or our facilities, or attacks that affect our personnel. There may be other potentially adverse effects on our operating results due to a significant event that we cannot foresee. Since we perform all of our manufacturing operations in China, and a significant portion of our customers are located outside of the United States, terrorist activity or threats against U.S.-owned enterprise are a particular concern to us.

#### If any of our facilities is damaged by occurrences such as fire, explosion, or natural disaster, we might not be able to manufacture our products.

The ongoing operation of our manufacturing and production facilities in China is critical to our ability to meet demand for our products. If we are not able to use all or a significant portion of our facilities for prolonged periods for any reason, we would not be able to manufacture products for our customers. For example, a fire or explosion caused by our use of combustible chemicals and high temperatures during our manufacturing processes could render some or all of our facilities inoperable for an indefinite period of time. Actions outside of our control, such as earthquakes or other natural disasters, could also damage our facilities, rendering them inoperable. If we are unable to operate our facilities and manufacture our products, we would lose customers and revenue and our business would be harmed.

#### Risks Related to International Aspects of Our Business

#### Changes in tariffs, import restrictions, export restrictions or other trade barriers may reduce gross margins.

We may incur increases in costs due to changes in tariffs, import or export restrictions, or other trade barriers, or unexpected changes in regulatory requirements, any of which could reduce our gross margins. For example, in 2006, tax authorities in the PRC changed the treatment of refunds of value-added taxes that companies pay when they purchase certain raw materials, including gallium and arsenic. The cumulative effect is that our PRC joint venture companies no longer receive a refund of value-added tax for exports of gallium or arsenic, including certain shipments to our wholly-owned PRC subsidiary that are treated as exports under PRC tax regulations. Given the relatively fluid regulatory environment in the PRC, there could be additional tax or other regulatory changes in the future. Any such changes could directly and materially adversely impact our financial results and general business condition.

# Our operating results depend in large part on continued customer acceptance of our substrate products manufactured in China and continued improvements in product quality.

We manufacture all of our products in China, and source most of our raw materials in China. Accordingly, we continue to seek customer qualification of our China-manufactured products. In addition, we have in the past experienced quality problems with our China-manufactured products. Our previous quality problems caused us to lose market share to our competitors, as some customers reduced their orders from us until our surface quality was as good and consistent as that offered by competitors and customers allocated their requirements for compound semiconductor substrates across more competitors. We have continued to experience some issues relating to haze reduction. If we are

unable to continue to achieve customer qualifications for our products, or if continue to experience quality problems, customers may not increase purchases of our products, our China facility will become underutilized, and we will be unable to achieve expected revenue growth. We may again lose sales of our products to competitors and experience loss of market share. If we are unable to recover and retain our market share, we may be unable to grow our business.

We derive a significant portion of our revenue from international sales, and our ability to sustain and increase our international sales involves significant risks.

Our revenue growth depends in part on the expansion of our international sales and operations. International sales represented 81%, 74% and 80% of our total revenue for the years ended December 31, 2009, 2008 and 2007, respectively. We expect that sales to customers outside the U.S., particularly sales to customers in Asia, will continue to represent a significant portion of our revenue.

Currently, an increasing percentage of our sales is to customers headquartered in Asia. All of our manufacturing facilities and some of our suppliers are also located outside the U.S. Managing our overseas operations presents challenges, including periodic regional economic downturns, trade balance issues, varying business conditions and demands, political instability, variations in enforcement of intellectual property and contract rights in different jurisdictions, differences in the ability to develop relationships with suppliers and other local businesses, changes in U.S. and international laws and regulations including U.S. export restrictions, fluctuations in interest and currency exchange rates, the ability to provide sufficient levels of technical support in different locations, cultural differences, shipping delays and terrorist acts or acts of war, among other risks. Many of these challenges are present in China, which represents a large potential market for semiconductor devices and where we anticipate significant opportunity for growth. Global uncertainties with respect to: (i) economic growth rates in various countries; (ii) sustainability of demand for electronics products; (iii) capital spending by semiconductor manufacturers; (iv) price weakness for certain semiconductor devices; and (v) political instability in regions where we have operations may also affect our business, financial condition and results of operations.

Our dependence on international sales involves a number of risks, including:

- changes in tariffs, import restrictions, export restrictions, or other trade barriers;
- unexpected changes in regulatory requirements;
- longer periods to collect accounts receivable;
- changes in export license requirements;
- political and economic instability;
- unexpected changes in diplomatic and trade relationships; and
- foreign exchange rate fluctuations.

Our sales are denominated in U.S. dollars, except for sales to our Japanese and some Taiwanese customers, which are denominated in Japanese yen. Thus, increases in the value of the U.S. dollar could increase the price of our products in non-U.S. markets and make our products more expensive than competitors' products in these markets.

Also, denominating some sales in Japanese yen subjects us to fluctuations in the exchange rates between the U.S. dollar and the Japanese yen. The functional currency of our Chinese subsidiary and joint ventures is the local currency. We incur transaction gains or losses resulting from consolidation of expenses incurred in local currencies for these entities, as well as in translation of the assets and liabilities of their assets at each balance sheet date. If we do not effectively manage the risks associated with international sales, our revenue, cash flows and financial condition could be adversely affected.

If there are power shortages in the PRC, we may have to temporarily close our China operations, which would adversely impact our ability to manufacture our products and meet customer orders, and would result in reduced revenue.

In the past, the Chinese government has faced a power shortage resulting in power demand outstripping supply in peak periods. Instability in electrical supply in past years has caused sporadic outages among residential and commercial consumers causing the Chinese government to implement tough measures to ease the energy shortage, and as a result, we closed most of our operations for a week in late July 2004 in conformance with this policy.

In 2006 we were able to switch the electrical supply for our manufacturing facility onto the same power grid as that used by vital PRC government services such as hospitals and police. However, if even despite this switch, further problems with power shortages occur in the future, and we are required to make temporary closures of our subsidiary and joint venture operations, we may be unable to manufacture our products, and would then be unable to meet customer orders except from inventory on hand. As a result, our revenue could be adversely impacted, and our relationships with our customers could suffer, impacting our ability to generate future revenue. In addition, if power is shut off at our Beijing subsidiary at any time, either voluntarily or as a result of unplanned brownouts, during certain phases of our manufacturing process including our crystal growth phase, the work in process may be ruined and rendered unusable, causing us to incur expense that will not be covered by revenue, and negatively impacting our cost of revenue and gross margins.

#### Changes in China's political, social and economic environment may affect our financial performance.

Our financial performance may be affected by changes in China's political, social and economic environment. The role of the Chinese central and local governments in the Chinese economy is significant. Chinese policies toward economic liberalization, and laws and policies affecting technology companies, foreign investment, currency exchange rates and other matters could change, resulting in greater restrictions on our ability to do business and operate our manufacturing facilities in China. Any imposition of surcharges or any increase in Chinese tax rates or reduction or elimination of Chinese tax benefits could hurt our operating results. The Chinese government could revoke, terminate or suspend our license for national security and similar reasons without compensation to us. If the government of China were to take any of these actions, we would be prevented from conducting all or part of our business. Any failure on our part to comply with governmental regulations could result in the loss of our ability to manufacture our products in China.

An outbreak of contagious disease such as Severe Acute Respiratory Syndrome (SARS) or the Avian Flu may adversely impact our manufacturing operations and some of our key suppliers and customers.

Any reoccurrence of SARS or an outbreak of a contagious disease, such as Avian Flu may cause us to temporarily close our manufacturing operations. Similarly, if one of our key suppliers is required to close for an extended period, we might not have enough raw material inventory to continue manufacturing operations. In addition, while we possess management skills among our China staff that enable us to maintain our manufacturing operations with minimal on-site supervision from our U.S.-based staff, our business could also be harmed if travel to or from Asia and the United States is restricted or inadvisable. None of our substrate competitors is as dependent on manufacturing facilities in China as we are. If our manufacturing operations were closed for a significant period, we could lose revenue and market share during that period, which would depress our financial performance and could be difficult to recapture. Finally, if one of our key customers is required to close for an extended period, we might not be able to ship product to them, our revenue would decline and our financial performance would suffer.

#### Risks Related to Our Financial Results and Capital Structure

Our common stock may be delisted from The Nasdaq Global Market, which could negatively impact the price of our common stock and our ability to access the capital markets.

Our common stock is listed on The Nasdaq Global Market. The bid price of our common stock has recently closed below the \$1.00 minimum per share bid price required for continued inclusion on The Nasdaq Global Market under Marketplace Rule 5450(a). If the bid price of our common stock remains below \$1.00 per share for thirty consecutive business days, we could be subject to delisting from the Nasdaq Global Market.

Any delisting from The Nasdaq Global Market could have an adverse effect on our business and on the trading of our common stock. If a delisting of our common stock were to occur, our common stock would trade on the OTC Bulletin Board or on the "pink sheets" maintained by the National Quotation Bureau, Inc. Such alternatives are generally considered to be less efficient markets, and our stock price, as well as the liquidity of our common stock, may be adversely impacted as a result. Delisting from The Nasdaq Global Market could also have other negative results, including the potential loss of confidence by suppliers and employees, the loss of institutional investor interest and fewer business development opportunities, as well as the loss of liquidity for our stockholders.

If we fail to manage periodic contractions, we may utilize our cash balances, resulting in the decline of our existing cash, cash equivalents and investment balances.

We anticipate that our existing cash resources will fund our operations and purchases of capital equipment, as well as provide adequate working capital for the next twelve months. However, our liquidity is affected by many factors including, among others, the extent to which we pursue additional capital expenditures, the level of our production, and other factors related to the uncertainties of the industry and global economies. If we fail to manage our contractions successfully we may draw down our cash reserves, which would adversely affect our operating results and financial condition, reduce our value and possibly impinge our ability to raise debt and equity funding in the future, at a time when we might be required to raise additional cash. Accordingly, there can be no assurance that events in the future will not require us to seek additional capital or, if required, that such capital would be available on terms acceptable to us, if at all. As part of our effort to reduce costs, we may lose key staff, production resources and technology that we will need to grow when end markets recover. These events could reduce our ability to grow profitably as markets recover.

Unpredictable fluctuations in our operating results could disappoint analysts or our investors, which could cause our stock price to decline.

We have experienced and may continue to experience significant fluctuations in our revenue and earnings. Our quarterly and annual revenue and operating results have varied significantly in the past and may vary significantly in the future due to a number of factors, including:

- our ability to develop, manufacture and deliver high quality products in a timely and cost-effective manner;
- decline in general economic conditions or downturns in the industry in which we compete;
- fluctuations in demand for our products;
- expansion of our manufacturing capacity;
- expansion of our operations in China;
- limited availability and increased cost of raw materials;

- the volume and timing of orders from our customers, and cancellations, push-outs and delays of customer orders once made;
- fluctuation of our manufacturing yields;
- decreases in the prices of our or our competitors' products;
- costs incurred in connection with any future acquisitions of businesses or technologies; and
- increases in our expenses, including expenses for research and development.

Due to these factors, we believe that period-to-period comparisons of our operating results may not be meaningful indicators of our future performance.

A substantial percentage of our operating expenses are fixed in the short term, and we may be unable to adjust spending to compensate for an unexpected shortfall in revenue. As a result, any delay in generating revenue could cause our operating results to be below the expectations of market analysts or investors, which could also cause our stock price to fall.

#### We have adopted certain anti-takeover measures that may make it more difficult for a third party to acquire us.

Our board of directors has the authority to issue up to 2,000,000 shares of preferred stock and to determine the price, rights, preferences and privileges of those shares without any further vote or action by the stockholders. The rights of the holders of common stock will be subject to, and may be adversely affected by, the rights of the holders of any preferred stock that may be issued in the future. The issuance of shares of preferred stock could have the effect of making it more difficult for a third party to acquire a majority of our outstanding voting stock. We have no present intention to issue additional shares of preferred stock.

We have adopted a preferred stock purchase rights plan intended to guard against certain takeover tactics. The adoption of this plan was not in response to any proposal to acquire us, and the board is not aware of any such effort. The existence of this plan could also have the effect of making it more difficult for a third party to acquire a majority of our outstanding voting stock.

In addition, provisions in our amended and restated certificate of incorporation and amended and restated bylaws may have the effect of delaying or preventing a merger, acquisition or change of control, or changes in our management, which could adversely affect the market price of our common stock. The following are some examples of these provisions:

- the division of our board of directors into three separate classes, each with three-year terms;
- the right of our board to elect a director to fill a space created by a board vacancy or the expansion of the board;
- the ability of our board to alter our amended and restated bylaws; and
- the requirement that only our board or the holders of at least 10% of our outstanding shares may call a special meeting of our stockholders.

Furthermore, because we are incorporated in Delaware, we are subject to the provisions of Section 203 of the Delaware General Corporation Law. These provisions prohibit us from engaging in any business combination with any interested stockholder (a stockholder who owns 15% or more of our outstanding voting stock) for a period of three years following the time that such stockholder became an interested stockholder, unless:

• 66<sup>2</sup>/3% of the shares of voting stock not owned by the interested stockholder approve the merger or combination, or

 the board of directors approves the merger or combination or the transaction which resulted in the stockholder becoming an interested stockholder.

#### Risks Related to Our Intellectual Property

#### Intellectual property infringement claims may be costly to resolve and could divert management attention.

Other companies may hold or obtain patents on inventions or may otherwise claim proprietary rights to technology necessary to our business. The markets in which we compete are comprised of competitors that in some cases hold substantial patent portfolios covering aspects of products that could be similar to ours. We could become subject to claims that we are infringing patent, trademark, copyright or other proprietary rights of others. For example, we have in the past been involved in two separate lawsuits alleging patent infringement, and could in the future be involved in similar litigation.

#### If we are unable to protect our intellectual property, we may lose valuable assets or incur costly litigation.

We rely on a combination of patents, copyrights, trademark and trade secret laws, non-disclosure agreements and other intellectual property protection methods to protect our proprietary technology. However, we believe that, due to the rapid pace of technological innovation in the markets for our products, our ability to establish and maintain a position of technology leadership also depends on the skills of our development personnel. Despite our efforts to protect our intellectual property, third parties can develop products or processes similar to ours. Our means of protecting our proprietary rights may not be adequate, and our competitors may independently develop similar technology, duplicate our products or design around our patents. We believe that at least two of our competitors have begun to ship GaAs substrates produced using a process similar to our VGF technique. Our competitors may also develop and patent improvements to the VGF technology upon which we rely, and thus may limit any exclusivity we enjoy by virtue of our patents or trade secrets.

It is possible that pending or future United States or foreign patent applications made by us will not be approved, that our issued patents will not protect our intellectual property, or that third parties will challenge the ownership rights or the validity of our patents. In addition, the laws of some foreign countries may not protect our proprietary rights to as great an extent as do the laws of the United States and it may be more difficult to monitor the use of our intellectual property. Our competitors may be able to legitimately ascertain non-patented proprietary technology embedded in our systems. If this occurs, we may not be able to prevent the development of technology substantially similar to ours.

We may have to resort to costly litigation to enforce our intellectual property rights, to protect our trade secrets or know-how or to determine their scope, validity or enforceability. Enforcing or defending our proprietary technology is expensive, could cause us to divert resources and may not prove successful. Our protective measures may prove inadequate to protect our proprietary rights, and if we fail to enforce or protect our rights, we could lose valuable assets.

For example, we are currently in negotiations to renew a cross-license entered into with Sumitomo Electric Industries, Ltd. in Japan in connection with the settlement of prior litigation. There can be no assurance that the cross-license that expired on December 31, 2008 will be renewed, or on terms acceptable to us.

#### Risks Related to Compliance and Other Legal Matters

#### We need to continue to improve or implement our systems, procedures and controls.

The shift of our manufacturing operations to China and growth of our business has placed and continues to place a significant strain on our operations and management resources. We have upgraded our inventory control systems, but continue to rely on certain manual processes in our operations and

in connection with consolidation of our financial results. If we fail to manage these changes effectively, our operations may be disrupted.

To manage our business effectively, we may need to implement additional and improved management information systems, further develop our operating, administrative, financial and accounting systems and controls, add experienced senior level managers, and maintain close coordination among our executive, engineering, accounting, marketing, sales and operations organizations.

#### We are subject to internal control evaluations and attestation requirements of Section 404 of the Sarbanes-Oxley Act.

Pursuant to Section 404 of the Sarbanes-Oxley Act of 2002, we must include in our Annual Report on Form 10-K a report of management on the effectiveness of our internal control over financial reporting. Ongoing compliance with this requirement is complex, costly and time-consuming. If: (1) we fail to maintain effective internal control over financial reporting; or (2) our management does not timely assess the adequacy of such internal control, we could be subject to regulatory sanctions and the public's perception of us may be adversely impacted.

If we fail to comply with environmental and safety regulations, we may be subject to significant fines or forced to cease our operations; in addition, we could be subject to suits for personal injuries caused by hazardous materials.

We are subject to federal, state and local environmental and safety laws and regulations in all of our operating locations, including laws and regulations of China, such as laws and regulations related to the development, manufacture and use of our products, the operation of our facilities, and the use of our real property. These laws and regulations govern the use, storage, discharge and disposal of hazardous chemicals during manufacturing, research and development, and sales demonstrations. If we fail to comply with applicable regulations, we could be subject to substantial liability for clean-up efforts, personal injury and fines or suspension or be forced to cease our operations, and/or suspend or terminate the development, manufacture or use of certain of our products, the use of our facilities, or the use of our real property, each of which could have a material adverse effect on our business, financial condition and results of operations.

We have in the past been the subject of claims made by the California Occupational Safety and Health Administration, or Cal-OSHA, in an investigation primarily regarding impermissible levels of potentially hazardous materials in certain areas of our manufacturing facility in Fremont, California. We were also previously the target of press allegations and correspondence purportedly on behalf of current and/or former employees concerning our environmental compliance programs and exposure of our employees to hazardous materials. In addition, a complaint was previously filed against us and two current officers, alleging personal injury, general negligence, intentional tort, wage loss and other damages, including punitive damages, as a result of exposure of plaintiffs to high levels of gallium arsenide in gallium arsenide wafers, and methanol. Other current and/or former employees could bring litigation against us in the future. Although we have put in place engineering, administrative and personnel protective equipment programs to address these issues, our ability to expand or continue to operate our present locations could be restricted or we could be required to acquire costly remediation equipment or incur other significant expenses if we were found liable for failure to comply with environmental and safety regulations. Existing or future changes in laws or regulations in the United States and China may require us to incur significant expenditures or liabilities, or may restrict our operations. In addition, our employees could be exposed to chemicals or other hazardous materials at our facilities and we may be subject to lawsuits seeking damages for wrongful death or personal injuries allegedly caused by exposure to chemicals or hazardous materials at our facilities.

Litigation is inherently uncertain and while we would expect to defend ourselves vigorously, it is possible that our business, financial condition, results of operations or cash flows could be affected in any particular period by litigation pending and any additional litigation brought against us. In addition, future litigation could divert management's attention from our business and operations, causing our business and financial results to suffer. We could incur defense or settlement costs in excess of the insurance covering these litigation matters, or that could result in significant judgments against us or cause us to incur costly settlements, in excess of our insurance limits.

#### Item 1B. Unresolved Staff Comments

None.

# Item 2. Properties

Our principal properties as of February 28, 2010 are as follows:

Location	Square Feet	Principal Use	Ownership
			·
Fremont, CA	27,760	Administration	Operating lease, expires November 2015
Beijing, China	33,000	Production	Owned
Beijing, China	34,000	Production	Owned
Beijing, China	48,000	Production	Owned
Beijing, China	22,000	Production and	Owned
		Administration	
Beijing, China	53,000	Production	Owned
Xianxi, China	56,500	Production	Owned by Beijing Ji Ya Semiconductor Material, Co., Ltd.*
Xianxi, China	7,500	Administration	Owned by Beijing Ji Ya Semiconductor Material, Co., Ltd.*
Beijing, China	2,000	Administration	Operating lease by Beijing Ji Ya Semiconductor
			Material, Co., Ltd., expires February 2011
Nanjing, China	22,000	Production	Owned by Nanjing Jin Mei Gallium Co., Ltd.*
Nanjing, China	5,700	R&D and	Owned by Nanjing Jin Mei Gallium Co., Ltd.*
		Administration	
Nanjing, China	3,900	Production	Owned by Nanjing Jin Mei Gallium Co., Ltd.*
Beijing, China	7,600	Production and	Owned by Beijing BoYu Semiconductor Vessel Craftwork
		Administration	Technology Co., Ltd.*

<sup>\*</sup> Joint ventures in which we hold an interest. We hold a 46% interest in Beijing Ji Ya Semiconductor Material Co., Ltd., a 83% interest in Nanjing Jin Mei Gallium Co., Ltd., and a 70% interest in Beijing BoYu Semiconductor Vessel Craftwork Technology Co., Ltd.

We consider each facility to be in good operating condition and adequate for its present use, and believe that each facility has sufficient plant capacity to meet its current and anticipated operating requirements.

# Item 3. Legal Proceedings

From time to time we may be involved in judicial or administrative proceedings concerning matters arising in the ordinary course of business. We do not expect that any of these matters, individually or in the aggregate, will have a material adverse effect on our business, financial condition, cash flows or results of operation.

#### Item 4. Reserved

None.

#### **PART II**

#### Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock has been trading publicly on the NASDAQ Global Market (NASDAQ) under the symbol "AXTI" since May 20, 1998, the date we consummated our initial public offering. The following table sets forth the range of high and low sales prices of the common stock for the periods indicated, as reported by NASDAQ.

	High	Low
2009		
First Quarter	\$ 1.50	\$ 0.68
Second Quarter	\$ 1.55	\$ 0.76
Third Quarter	\$ 2.20	\$ 1.29
Fourth Quarter	\$ 3.40	\$ 1.71
2008		
First Quarter	\$ 7.20	\$ 4.22
Second Quarter	\$ 5.11	\$ 4.11
Third Quarter	\$ 4.76	\$ 1.85
Fourth Quarter	\$ 2.09	\$ 0.86

As of December 31, 2009, there were 86 holders of record of our common stock. Because many shares of AXT's common stock are held by brokers and other institutions on behalf of stockholders, we are unable to estimate the total number of beneficial owners of our common stock.

We have never paid or declared any cash dividends on our common stock and do not anticipate paying cash dividends in the foreseeable future. Dividends accrue on our outstanding Series A preferred stock at the rate of \$0.20 per annum per share of Series A preferred stock. The 883,000 shares of \$0.001 par value Series A preferred stock issued and outstanding as of December 31, 2009 and 2008 respectively, valued at \$3,532,000 are non-voting and non-convertible preferred stock with a 5.0% cumulative annual dividend rate payable when declared by the board of directors, and \$4 per share liquidation preference over common stock, and must be paid before any distribution is made to common stockholders. These preferred shares were issued to Lyte Optronics, Inc. stockholders in connection with the completion of our acquisition of Lyte Optronics, Inc. on May 28, 1999.

#### Issuer Purchases of Equity Securities

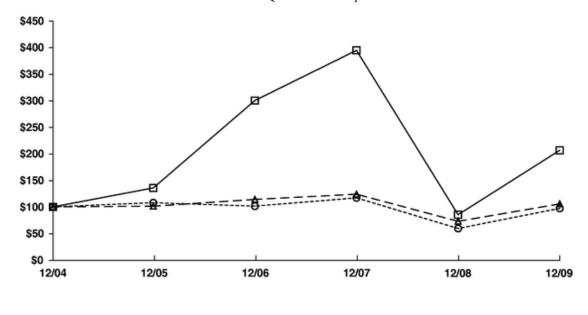
During the years ended December 31, 2009 and 2008, we did not repurchase any shares of our common stock.

#### Comparison of Stockholder Return

Set forth below is a line graph comparing the annual percentage change in the cumulative total return to the stockholders of the Company on our common stock with the CRSP Total Return Index for the Nasdaq Stock Market (U.S. Companies) and the Nasdaq Electronic Components Index for the period commencing December 31, 2004, and ending December 31, 2009.

#### COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN\*

Among AXT, Inc., The NASDAQ Composite Index And The NASDAQ Electronic Components Index



— — AXT, Inc. — — — NASDAQ Composite ----Θ---- NASDAQ Electronic Components

<sup>\* \$100</sup> invested on 12/31/04 in stock & index—including reinvestment of dividends. Fiscal year ending December 31.

	12/04	12/05	12/06	12/07	12/08	12/09
AXT, Inc.	100.00	135.44	298.73	392.41	85.44	205.70
NASDAQ Composite	100.00	101.33	114.01	123.71	73.11	105.61
NASDAQ Electronic Components	100.00	107.81	101.44	116.92	59.73	97.30

## Item 6. Selected Consolidated Financial Data

The following selected consolidated financial data is derived from and should be read in conjunction with our consolidated financial statements and related notes set forth in Item 8 below, and in our previously filed reports on Form 10-K. See also Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations" for further information relating to items reflecting our results of operations and financial condition.

	Years Ended December 31,									
		2009	_	2008	_	2007	_	2006	_	2005
Statements of Operations Data:				(in thousan	ıds,	except per	sha	are data)		
Revenue	\$	55,364	\$	73,075	\$	58,203	\$	44,445	\$	26,536
Cost of revenue		41,495	Ψ.	55,115	Ψ	37,942	Ψ	31,709	Ψ.	24,337
Gross profit	_	13,869	_	17,960	_	20,261	_	12,736	_	2,199
Operating expenses:			_		_				_	
Selling, general, and administrative		13,389		15,751		13,746		12,650		12,955
Research and development		1,569		2,164		1,699		2,351		1,723
Impairment (recovery of impairment) on assets held for sale		_		83		(481)		1,417		_
Restructuring charge (benefit)		507		_		_		(2)		836
Total operating expenses	_	15,465		17,998		14,964		16,416		15,514
Income (loss) from continuing operations		(1,596)		(38)		5,297		(3,680)		(13,315)
Interest income, net		177		513		704		443		516
Other income (expense), net		385	_	1,290	_	1,912		3,672	_	(270)
Income (loss) from continuing operations before provision (benefit) for income taxes		(1,034)		1,765		7,913		435		(13,069)
Provision (benefit) for income taxes		471		1,023		728		(1,454)		(950)
Net (loss) income from continuing operations	_	(1,505)	_	742	_	7,185		1,889		(12,119)
Discontinued operations:										
Gain (loss) from discontinued operations, net of tax		_		_		_		18		(59)
Gain from disposal, net of tax		_		_		_		_		603
Gain from discontinued operations, net of taxes						_		18		544
Net income (loss)	\$	(1,505)	\$	742	\$	7,185	\$	1,907	\$	(11,575)
Less: Net income attributable to noncontrolling interest		393		1,431		1,896		963		640
Net income (loss) attributable to AXT, Inc.	\$	(1,898)	\$	(689)	\$	5,289	\$	944	\$	(12,215)
Basic income (loss) per share:										
Income (loss) from continuing operations	\$	(0.07)	\$	(0.03)	\$	0.17	\$	0.03	\$	(0.56)
Gain from discontinued operations, net of tax										0.02
Net income (loss) attributable to AXT, Inc	\$	(0.07)	\$	(0.03)	\$	0.17	\$	0.03	\$	(0.54)
Diluted income (loss) per share:										
Income (loss) from continuing operations	\$	(0.07)	\$	(0.03)	\$	0.16	\$	0.03	\$	(0.56)
Gain from discontinued operations, net of tax		_		_				_		0.02
Net income (loss) attributable to AXT, Inc	\$	(0.07)	\$	(0.03)	\$	0.16	\$	0.03	\$	(0.54)
Shares used in per share calculations:									_	
Basic		30,500		30,400		30,035		23,303		23,047
Diluted		30,500		30,400		31,348		24,600		23,047

		December 31,							
	2009	2008	2007	2006	2005				
			(in thousands)						
Balance Sheet Data:									
Cash and cash equivalents	\$ 16,934	\$ 13,566	\$ 18,380	\$ 16,116	\$ 17,472				
Short-term investments	18,469	17,756	20,825	19,428	5,555				
Working capital	70,681	66,836	75,350	66,359	36,347				
Restricted deposits	_	3,013	6,700	7,150	7,450				
Total assets	107,946	111,662	112,772	98,332	74,798				
Long-term debt, net of current portion	420	496	6,250	6,839	7,420				
Stockholders' equity	97,251	96,876	96,986	83,629	57,515				

All periods have been restated to reflect the accounting for discontinued operations. As a result, the discontinued opto-electronics and consumer products divisions have been eliminated from continuing operations in the statements of operations.

#### Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

In addition to historical information, the following discussion contains forward- looking statements that are subject to risks and uncertainties. Actual results may differ substantially from those referred to herein due to a number of factors, including but not limited to risks described in the section entitled Item 1A. "Risk Factors" and elsewhere in this Annual Report. This discussion should be read in conjunction with Item 6. "Selected Consolidated Financial Data" and our consolidated financial statements and related notes included elsewhere in this Form 10-K.

#### **Critical Accounting Policies and Estimates**

We prepare our consolidated financial statements in accordance with accounting principles generally accepted in the United States of America. Accordingly, we make estimates, assumptions and judgments that affect the amounts reported on our consolidated financial statements. These estimates, assumptions and judgments about future events and their effects on our results cannot be determined with certainty, and are made based upon our historical experience and on other assumptions that are believed to be reasonable under the circumstances. These estimates may change as new events occur or additional information is obtained, and we may periodically be faced with uncertainties, the outcomes of which are not within our control and may not be known for a prolonged period of time.

We have identified the policies below as critical to our business operations and understanding of our financial condition and results of operations. A critical accounting policy is one that is both material to the presentation of our consolidated financial statements and requires us to make difficult, subjective or complex judgments that could have a material impact on our consolidated financial statements. Different estimates that we could have used, or changes in the estimates that are reasonably likely to occur, may have a material impact on our financial condition or results of operations. We also refer you to our "The Company and Summary of Significant Accounting Policies" discussed in the accompanying notes to our consolidated financial statements included elsewhere in this Form 10-K.

### Revenue Recognition

We manufacture and sell high-performance compound semiconductor substrates and sell certain raw materials including gallium, germanium dioxide, and pBN crucibles. After we ship our products, there are no remaining obligations or customer acceptance requirements that would preclude revenue recognition. Our products are typically sold pursuant to a purchase order placed by our customers, and our terms and conditions of sale do not require customer acceptance. We recognize revenue upon

shipment and transfer of title of products to our customers, which is either upon shipment from our dock, receipt at the customer's dock, or removal from consignment inventory at the customer's location, provided that we have received a signed purchase order, the price is fixed or determinable, title and risk of ownership have transferred, collection of resulting receivables is probable, and product returns are reasonably estimable. We do not provide training, installation or commissioning services. Additionally, we do not provide discounts or other incentives to customers.

We provide for future returns based on historical experience, current economic trends and changes in customer demand at the time revenue is recognized.

#### Allowance for Doubtful Accounts

We periodically review the likelihood of collection on our accounts receivable balances and provide an allowance for doubtful accounts receivable primarily based upon the age of these accounts. We generally provide a 100% allowance for U.S. receivables in excess of 90 days and for foreign receivables in excess of 120 days. We assess the probability of collection based on a number of factors, including the length of time a receivable balance has been outstanding, our past history with the customer and their credit worthiness.

As of December 31, 2007, our accounts receivable balance was \$12.1 million, which was net of an allowance for doubtful accounts of \$0.4 million. As of December 31, 2008, our accounts receivable balance was \$11.5 million, which was net of an allowance for doubtful accounts of \$0.6 million. The increase of \$0.2 million in allowance for doubtful accounts from the prior year was mainly for one slow-paying customer in the United States in the amount of \$0.4 million, offset by subsequent collections from an Asian customer in the amount of \$0.2 million. As of December 31, 2009, our accounts receivable balance was \$15.4 million, which was net of an allowance for doubtful accounts of \$0.2 million. During 2009, we decreased this allowance by \$0.4 million primarily for improved collections from slow-paying customers in Asia, resulting in the allowance for doubtful accounts of \$0.2 million as of December 31, 2009. No amounts have been written off. If actual uncollectible accounts differ substantially from our estimates, revisions to the estimated allowance for doubtful accounts would be required, which could have a material impact on our financial results for the period.

The allowance for sales returns is also deducted from gross accounts receivable. Our allowance for sales returns was \$3,000 as of December 31, 2007. During 2008, we charged an additional \$130,000 in sales returns resulting in the allowance for sales returns of \$133,000 as of December 31, 2008. During 2009, we utilized \$119,000 and charged an additional \$842,000 resulting in the allowance for sales returns of \$856,000 as of December 31, 2009.

### Warranty Reserve

We maintain a warranty reserve based upon our claims experience during the prior twelve months. Warranty costs are accrued at the time revenue is recognized. As of December 31, 2009 and 2008, accrued product warranties totaled \$1.1 million and \$1.6 million, respectively. The decrease in accrued product warranties is primarily attributable to decreased claims for quality issues experienced by some customers. If actual warranty costs differ substantially from our estimates, revisions to the estimated warranty liability would be required.

#### **Inventory Valuation**

Inventories are stated at the lower of cost or market. Cost is determined using the weighted average cost method. Our inventory consists of raw materials as well as finished goods and work-in-process that include material, labor and manufacturing overhead costs. Given the nature of our substrate products, and the materials used in the manufacturing process, the wafers and ingots comprising work-in-process may be held in inventory for up to two years and three years, respectively,

as the risk of obsolescence for these materials is low. We routinely evaluate the levels of our inventory in light of current market conditions in order to identify excess and obsolete inventory and adjust the carrying value of certain inventories based upon the age and quality of the product and the projections for sale of the completed products. If actual demand for our products were to be substantially lower than estimated, additional inventory adjustments for excess or obsolete inventory might be required, which could have a material impact on our business, financial condition and results of operations.

## Impairment of Investments

We classify our investments in debt and equity securities as available-for-sale securities in accordance with ASC topic 320, *Investments—Debt an Equity Securities* ("ASC 320"). All available-for-sale securities with a quoted market value below cost (or adjusted cost) are reviewed in order to determine whether the decline is other-than-temporary. Factors considered in determining whether a loss is temporary include the magnitude of the decline in market value, the length of time the market value has been below cost (or adjusted cost), credit quality, and our ability and intent to hold the securities for a period of time sufficient to allow for any anticipated recovery in market value.

We invest in equity instruments of privately-held companies for business and strategic purposes. These investments are classified as other assets and are accounted for under the cost method as we do not have the ability to exercise significant influence over their operations. We monitor our investments for impairment and record reductions in carrying value when events or changes in circumstances indicate that the carrying value may not be recoverable. Determination of impairment is highly subjective and is based on a number of factors, including an assessment of the strength of investee's management, the length of time and extent to which the fair value has been less than our cost basis, the financial condition and near-term prospects of the investee, fundamental changes to the business prospects of the investee, share prices of subsequent offerings, and our intent and ability to hold the investment for a period of time sufficient to allow for any anticipated recovery in our carrying value. We had no write-downs in 2009, 2008 or 2007.

#### Fair Value of Investments

In the current market environment, the assessment of the fair value of debt instruments can be difficult and subjective. The volume of trading activity of certain debt instruments has declined, and the rapid changes occurring in today's financial markets can lead to changes in the fair value of financial instruments in relatively short periods of time. ASC 820 establishes three levels of inputs that may be used to measure fair value.

Level 1 instruments represent quoted prices in active markets. Therefore, determining fair value for Level 1 instruments does not require significant management judgment, and the estimation is not difficult. Level 2 instruments include observable inputs other than Level 1 prices, such as quoted prices for identical instruments in markets with insufficient volume or infrequent transactions (less active markets), issuer credit ratings, non-binding market consensus prices that can be corroborated with observable market data, model-derived valuations in which all significant inputs are observable or can be derived principally from or corroborated with observable market data for substantially the full term of the assets or liabilities, or quoted prices for similar assets or liabilities. These Level 2 instruments require more management judgment and subjectivity compared to Level 1 instruments, including:

- Determining which instruments are most similar to the instrument being priced requires management to identify a sample of similar securities based on the coupon rates, maturity, issuer, credit rating, and instrument type, and subjectively select an individual security or multiple securities that are deemed most similar to the security being priced.
- Determining whether a market is considered active requires management judgment. Our assessment of an active market for our marketable debt instruments generally takes into

consideration activity during each week of the one-month period prior to the valuation date of each individual instrument, including the number of days each individual instrument trades and the average weekly trading volume in relation to the total outstanding amount of the issued instrument.

• Determining which model-derived valuations to use in determining fair value requires management judgment. When observable market prices for identical securities or similar securities are not available, we price our marketable debt instruments using non-binding market consensus prices that are corroborated with observable market data or pricing models, such as discounted cash flow models, with all significant inputs derived from or corroborated with observable market data.

Level 3 instruments include unobservable inputs to the valuation methodology that are significant to the measurement of fair value of assets or liabilities. The determination of fair value for Level 3 instruments requires the most management judgment and subjectivity. As of December 31, 2009, we did not have any assets or liabilities without observable market values that would require a high level of judgment to determine fair value (Level 3 assets).

## Impairment of Long-Lived Assets

We evaluate the recoverability of property, equipment and intangible assets in accordance with ASC topic 360, Property, Plant and Equipment ("ASC 360"). When events and circumstances indicate that long-lived assets may be impaired, we compare the carrying value of the long-lived assets to the projection of future undiscounted cash flows attributable to such assets. In the event that the carrying value exceeds the future undiscounted cash flows, we record an impairment charge against income equal to the excess of the carrying value over the asset's fair value. Fair value is generally determined by calculating the discounted future cash flows using a discount rate based upon our weighted average cost of capital, and specific appraisal in certain instances. Significant judgments and assumptions are required in the forecast of future operating results used in the preparation of the estimated future cash flows, including long-term forecasts of the amounts and timing of overall market growth and our percentage of that market, groupings of assets, discount rate and terminal growth rates. Changes in these estimates could have a material adverse effect on the assessment of longlived assets, thereby requiring us to write down the assets. In the third quarter of 2006, we incurred an impairment charge of \$1.4 million to write down our U.S. property in Fremont, California, which was being decontaminated and was being prepared for sale. In the second quarter of 2007, we benefited from a recovery of impairment on this asset held for sale in connection with our adjustment of the fair value. We recorded a \$481,000 market value adjustment after we entered into an agreement with an independent third party purchaser in June 2007 to purchase the property for estimated net proceeds of \$5.1 million, after deducting estimated commission and selling expenses. In the fourth quarter of 2007, that agreement was terminated and we entered into a new sales agreement with another independent third party purchaser to purchase this property for a similar amount. The sale of the property was consummated in March 2008 and we recorded an \$83,000 adjustment due to the final sales price of the property. We no longer have "Assets held for sale" on the consolidated balance sheet.

## **Stock Based Compensation**

We grant options to substantially all management employees and believe that this program helps us to attract, motivate and retain high quality employees, to the ultimate benefit of our stockholders. We adopted the fair value recognition provisions of ASC 718, using the modified prospective method.

We recognize these compensation costs net of an estimated forfeiture rate over the requisite service period of the award, which is generally the vesting term of four years for stock options. Stock compensation expense recorded in cost of revenue, research and development, and selling, general and

administrative expenses is the amortization of the fair value of share-based payments made to employees and members of our board of directors, primarily in the form of stock options and restricted stock (see Note 1—Summary of Significant Accounting Policies—Stock-Based Compensation). All of our stock compensation is accounted for as an equity instrument.

We utilize the Black-Scholes option pricing model to estimate the grant date fair value of employee stock compensation awards, which requires the input of highly subjective assumptions, including expected volatility and expected term. Historical and implied volatility were used in estimating the fair value of our stock compensation awards, while the expected term for our options was estimated based on historical trends. Further, we estimate forfeitures for stock compensation awards that are not expected to vest. Changes in these inputs and assumptions can materially affect the measure of estimated fair value of our stock compensation. We charge the estimated fair value to earnings on a straight-line basis over the vesting period of the underlying awards, which is generally four years for our stock option awards.

The Black-Scholes option pricing model was developed for use in estimating the fair value of traded options that have no vesting restrictions and are fully transferable. As our stock option awards have characteristics that differ significantly from traded options, and as changes in the subjective assumptions can materially affect the estimated value, our estimate of fair value may not accurately represent the value assigned by a third party in an arms-length transaction. There currently is no market-based mechanism to verify the reliability and accuracy of the estimates derived from the Black-Scholes option pricing model or other allowable valuation models, nor is there a means to compare and adjust the estimates to actual values. While our estimate of fair value and the associated charge to earnings materially affects our results of operations, it has no impact on our cash position.

There are significant variations among allowable valuation models, and there is a possibility that we may adopt a different valuation model or refine the inputs and assumptions under our current valuation model in the future resulting in a lack of consistency in future periods. Our current or future valuation model and the inputs and assumptions we make may also lack comparability to other companies that use different models, inputs, or assumptions, and the resulting differences in comparability could be material.

#### Income Taxes

We account for income taxes in accordance with ASC 740 which requires that deferred tax assets and liabilities be recognized using enacted tax rates for the effect of temporary differences between the book and tax bases of recorded assets and liabilities. ASC 740 also requires that deferred tax assets be reduced by a valuation allowance if it is more likely than not that a portion of the deferred tax asset will not be realized.

We provide for income taxes based upon the geographic composition of worldwide earnings and tax regulations governing each region, particularly China. The calculation of tax liabilities involves significant judgment in estimating the impact of uncertainties in the application of complex tax laws, particularly in foreign countries such as China.

Effective January 1, 2007, we adopted ASC 740. See Note 12—"Income Taxes" in the consolidated financial statements for additional information.

#### **Results of Operations**

#### Overview

We were founded in 1986 to commercialize and enhance our proprietary vertical gradient freeze (VGF) technique for producing high-performance compound semiconductor substrates. We have one operating segment: our substrate business, with limited additional raw materials sales. We recorded our first substrate sales in 1990 and our substrate division currently sells gallium arsenide (GaAs) and indium phosphide (InP) substrates to manufacturers of semiconductor devices for use in applications such as fiber optic and wireless telecommunications, light emitting diodes (LEDs) and lasers. We also sell raw materials including gallium and germanium through our participation in majority- and minority-owned joint ventures. During 2009, we continued to qualify our germanium substrates with satellite and terrestrial solar cell system manufacturers in the U.S. and Europe.

### **Continuing Operations**

We manufacture all of our semiconductor substrates using our proprietary vertical gradient freeze (VGF) technology. Most of our revenue is from sales of GaAs substrates. We manufacture all of our products in the People's Republic of China (PRC or China), which generally has favorable costs for facilities and labor compared to comparable facilities in the United States or Europe. We also have five joint ventures in China that provide us favorable pricing, reliable supply and shorter lead-times for raw materials central to our final manufactured products.

Our business and operating results depend in significant part upon capital expenditures of semiconductor designers and manufacturers, which in turn depend upon the current and anticipated market demand for products incorporating semiconductors from these designers and manufacturers and our business depends in part on worldwide economic conditions. During 2009 the United States and other key international economies, experienced a period of severe recession characterized by falling demand for a variety of goods and services, including those related to the semiconductor industry. These conditions have adversely affected our results in the beginning of 2009. Should the worldwide economic downturn begin to lessen, and purchasing again increase, we believe that, demand for compound semiconductor substrates will also increase, and that we are well-positioned to leverage our PRC-based manufacturing capabilities and access to favorably priced raw materials to increase our market share if such improvements occur.

While the volatile business and financial markets are prompting us to continue to take a conservative approach to our business, we remain optimistic about our business. Positive industry trends, coupled with our competitive manufacturing and cost advantages give us confidence in our ability to continue to drive future businesses in 2010.

On March 17, 2009, our then-chief executive officer Dr. Philip C.S. Yin resigned as chairman of our Board and as chief executive officer. On July 20, 2009, the Board appointed Dr. Morris S. Young as chief executive officer. Dr. Young continues to serve as a member of the Board of Directors of the Company but is no longer eligible for compensation for his services as a director but instead would be paid compensation as disclosed on the Current Report on Form 8-K filed by the Company with the Securities and Exchange Commission on July 20, 2009. On October 29, 2009, we announced three executive promotions. Raymond A. Low, formerly AXT's vice president, corporate controller and acting chief financial officer, was appointed vice president and chief financial officer. Davis Zhang, formerly AXT's president of joint venture operations, was appointed president of AXT China Operations, with responsibility for managing and developing AXT's joint venture operations, as well as assisting the chief executive officer, with the management of AXT's manufacturing facilities in China. Robert G. Ochrym, formerly AXT's vice president of business development, was appointed vice president of business development, strategic sales and marketing. His responsibilities include sales for the North American East Coast and Europe and together with John J. Cerilli, vice president of global sales and marketing,

maximizing customer support around the world. He will also be responsible for developing sales and marketing strategies, major sale contract negotiations, major market identification and other strategic sales and marketing functions. These executive promotions were disclosed on the Current Report on Form 8-K filed by the Company with the Securities and Exchange Commission on October 30, 2009.

#### Revenue

		2008 to	2009	2007 to 2008		
r Ended Dec	e. 31,					
		Increase	%	Increase	%	
2008	2007	(Decrease)	Change	(Decrease)	Change	
\$49,610	\$40,219	\$ (8,556)	(17.2)%	6\$ 9,391	23.3%	
1,935	1,916	440	22.7	19	1.0	
4,248	2,225	1,192	28.1	2,023	90.9	
17,232	13,790	(10,792)	(62.6)	3,442	25.0	
50	53	5	10.0	(3)	(5.7)	
\$73,075	\$58,203	\$(17,711)	(24.2)%	6\$ 14,872	25.6%	
	2008 4\$49,610 5 1,935 6 4,248 17,232 5 50	\$49,610 \$40,219 5 1,935 1,916 6 4,248 2,225 17,232 13,790 5 50 53	Ended Dec. 31,	Ended Dec. 31,	Tended Dec. 31,	

Revenue decreased by \$17.7 million or 24.2%, to \$55.4 million in 2009 from \$73.1 million in 2008. Total GaAs substrate revenue decreased \$8.6 million, or 17.2%, to \$41.1 million in 2009 from \$49.6 million in 2008. Sales of 5 inch and 6 inch diameter GaAs substrates decreased \$4.4 million to \$17.2 million in 2009 compared to \$21.6 million in 2008 due to less than expected orders from a few handset market customers, inventory overhang and certain push-out of customer shipments particularly during the first and second quarters of 2009 due to the decline in overall worldwide market conditions. Similarly, the decrease of \$4.1 million in sales of 2 inch, 3 inch and 4 inch diameter GaAs substrate revenue was also due to less than expected orders from customers, inventory overhang and certain push-out of customer shipments particularly during the first and second quarters of 2009 due to the decline in overall worldwide market conditions.

Revenue increased by \$14.9 million or 25.6%, to \$73.1 million in 2008 from \$58.2 million in 2007. Total GaAs substrate revenue increased \$9.4 million, or 23.3%, to \$49.6 million in 2008 from \$40.2 million in 2007. Sales of 5 inch and 6 inch diameter GaAs substrates increased by \$5.3 million to \$21.6 million in 2008 compared to \$16.3 million in 2007 primarily due to our 6 inch supply agreement with IQE group which commenced in January 2008, partially offset by a small decline on 5 inch substrates due to lesser demand from one customer.

Sales of 2 inch, 3 inch and 4 inch diameter GaAs substrates were \$28.0 million in 2008 compared to \$23.9 million in 2007. The increase in revenue from smaller diameter substrates was primarily due to our supply agreement with IQE group on 4 inch diameter substrates which commenced in January 2008, offset by lesser demand for 2 inch substrates from several large semi-conducting customers as the economy softens in the second half of 2008. The increase in revenue from smaller diameter substrates was generally due to the continued market growth of LED laser diodes and commercial epitaxy.

InP substrate revenue increased by \$440,000, or 22.7%, to \$2.4 million in 2009 compared to \$1.9 million in 2008 due to growth in the optical networking industry, which uses InP to manufacture telecom lasers and also some growth in the demand for specialized automotive applications. In the prior year, InP substrate revenue increased by only \$19,000, or 1.0%, to \$1.9 million in 2008 compared to \$1.9 million in 2007 as the demand for specialized automotive applications and overall optical communications applications remained flat.

Ge substrate revenue increased by \$1.2 million, or 28.1%, to \$5.4 million in 2009 from \$4.2 million in 2008. This increase was mainly due to our newly qualified European customer for concentrated photovoltaic satellite applications. Ge substrate revenue increased by \$2.0 million, or 90.9%, to \$4.2 million in 2008 from \$2.2 million in 2007. That increase in germanium substrate revenue was due

to the continuing increased demand for space and terrestrial based applications from our German and Chinese customers.

Raw materials revenue decreased \$10.8 million, or 62.6%, to \$6.4 million in 2009 from \$17.2 million in 2008. The decrease in raw materials revenue was primarily due to the worldwide drop in demand for 4N gallium. In particular, our China joint venture JiYa experienced the impact of the slowdown causing its customers to postpone or cancel orders while utilizing excess inventory. Raw materials revenue increased by \$3.4 million, or 25.0%, to \$17.2 million in 2008 from \$13.8 million in 2007 as a result of increased demand of 4N raw gallium. Our raw materials business has increasingly become an important part of our business, both in terms of providing us protection against raw materials pricing increases and supply constraints. Since we are able to supply raw materials necessary for the production of our substrates at favorable prices, our ability to sell such materials in the open market, at market prices, also provides us with pricing protection. We expect to continue to expand our raw materials sales efforts. However, as our contracted supply of high purity gallium with an independent third party expired in December 2008, we expect to increase our needed supply from our joint ventures, resulting in less raw materials available for sale to third parties going forward, and we expect the percentage of revenue from sales of raw materials to remain flat or increase slightly in 2010.

One customer represented greater than 10% of our total revenue, totaling 15% for the year ended December 31, 2009, one customer represented greater than 10% of our total revenue, totaling 19% for the year ended December 31, 2008, and one customer represented greater than 10% of our total revenue, totaling 12% for the year ended December 31, 2007. Our top fivecustomers represented 41%, 46%, and 40% of revenue for the years ended December 31, 2009, 2008, and 2007, respectively.

#### Revenue by Geographic Region

				2008 to	2009	2007 to 2008		
(\$ in thousands)	2009	r Ended Dec	2007	Increase (Decrease)	% Change	Increase (Decrease)	% Change	
North						<u> </u>		
America*	\$10,701	\$19,181	\$11,839	\$ (8,480)	(44.2)	%\$ 7,342	62.0%	
% of total								
revenue	19%	6 269	% 20%	6				
Europe	10,489	14,524	9,930	(4,035)	(27.8)	4,594	46.3	
% of total								
revenue	19%	6 209	% 1 <i>7</i> 9	%				
Japan	7,777	14,685	13,280	(6,908)	(47.0)	1,405	10.6	
% of total								
revenue	14%	6 209	% 23°	%				
Taiwan	10,453	7,806	9,329	2,647	33.9	(1,523)	(16.3)	
% of total								
revenue	19%	6 119	% 169	6				
Asia Pacific								
(excluding								
Japan and								
Taiwan)	15,944	16,879	13,825	(935)	(5.5)	3,054	22.1	
% of total								
revenue	29%	6 239	% 249	%				
Total								
revenue	\$55,364	\$73,075	\$58,203	\$(17,711	(24.2)	%\$ 14,872	25.5%	

<sup>\*</sup> Primarily the United States.

Sales to customers located outside of North America represented approximately 81%, 74%, and 80% of our revenue during 2009, 2008 and 2007, respectively.

Revenue from customers located in North America decreased by \$8.5 million, or 44.2%, to \$10.7 million in 2009 from \$19.2 million in 2008. The worldwide economic slowdown caused the demand for products of our North American customer to drop, causing our North American customers to

temporarily utilize their excess inventory. Revenue from customers located in North America increased by \$7.3 million, or 62.0%, to \$19.2 million in 2008 from \$11.8 million in 2007. This increase

in 2008 was primarily due to our 4 inch and 6 inch supply agreements with IQE group which commenced in January 2008. Our 4 inch and 6 inch supply agreements with IQE group were renewed in December 2008, and expire in March 2010 for a total contract price of up to \$14.3 million.

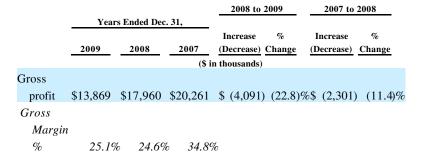
Revenue from customers in Europe decreased by \$4.0 million, or 27.8%, to \$10.5 million in 2009 from \$14.5 million in 2008. This decrease came primarily from decreased raw material sales of \$2.1 million to customers in the United Kingdom, decreased raw material sales of \$1.0 million to customers in The Netherlands, primarily due to the worldwide drop in demand for 4N gallium, and decreased substrate sales to customers in France of \$0.9 million and to customers in Germany of \$0.5 million due to decreased demand for substrates. Revenue from customers located in Europe increased by \$4.6 million, or 46.3%, to \$14.5 million in 2008 from \$9.9 million in 2007. This increase resulted mainly from \$2.9 million in increased sales of raw materials to customers in the United Kingdom, \$0.7 million in increased sales to customers in Germany, which was mainly in Ge substrate sales, \$0.6 million in increased sales of 6 inch diameter GaAs substrates to customers in France, and \$0.4 million increase in 4N gallium sales to customers in the Netherlands.

Revenue from customers in Japan decreased by \$6.9 million, or 47%, to \$7.8 million in 2009 from \$14.7 million in 2008. Raw material sales of 4N gallium decreased by \$5.7 million as demand fell while substrate sales decreased by \$1.2 million, particularly in large diameter wafers. Revenue from customers in Japan increased by \$1.4 million, or 10.6%, to \$14.7 million in 2008 from \$13.3 million in 2007. The increase mainly came from large diameter substrates amounting to \$2.8 million, while raw material sales to existing customers decreased by approximately \$1.4 million as customers' inventory level increased towards the end of 2008.

Revenue from customers in Taiwan increased by \$2.6 million, or 33.9%, to \$10.5 million in 2009 from \$7.8 million in 2008. We have seen some recovery in demand from customers in the second half of 2009 for both small diameter LED wafers as well as large diameter semi-insulating wafers. Revenue from customers in Taiwan decreased by \$1.5 million, or 16.3%, to \$7.8 million in 2008 from \$9.3 million in 2007. We had approximately \$3.9 million less revenues from four existing small diameter LED customers in Taiwan, partially offset by a \$2.4 million increase in revenues from a few customers, including a new LED customer.

Revenue from customers in the Asia Pacific (excluding Japan and Taiwan) decreased by \$0.9 million, or 5.5%, to \$15.9 million in 2009 from \$16.9 million in 2008. Of this decrease, sales to customers in the PRC decreased by \$2.1 million due to a decrease in demand for raw materials and substrates, and sales to customers in Korea decreased by \$0.2 million, partially offset by an increase in sales to customers in Malaysia and Singapore of \$1.3 million. Revenue from customers in the Asia Pacific (excluding Japan and Taiwan) increased by \$3.1 million, or 22.1%, to \$16.9 million in 2008 from \$13.8 million in 2007. Of this increase, sales to customers in the PRC increased by \$2.5 million due to an increase in demand for raw materials and substrates, and sales to customers in Korea increased by \$0.3 million, while sales to customers in Malaysia and Singapore also increased by \$0.3 million from a large customer.

## Gross Margin



Gross margin increased to 25.1% of total revenue in 2009 from 24.6% of total revenue in 2008. Gross margin in 2009 was positively impacted by the net sales of approximately \$1.2 million of GaAs

wafers that were previously written off. In the past we reported the gross sale of fully reserved wafers and its effects on gross margin without taking into account the charge to cost of goods sold and its effect on gross margin for wafers that were added to fully reserved wafers. We are now reporting the net sale of fully reserved wafers and its effects on gross margin. The net sale is derived from the gross sale of fully reserved wafers less the charge to cost of goods sold for wafers that were added to fully reserved wafers. We have done this retroactively for all prior periods reported. The 2008 quarterly trend of gross margin for the first quarter to the fourth quarter of 31.7%, 32.3%, 25.4% and 4.8%, respectively, compared to the 2009 quarterly trend of gross margin for the first quarter to the fourth quarter of -3.1%, 19.3%, 32.9% and 33.9%, respectively, will provide a better understanding of the effects of the worldwide economic conditions experienced in the second half of 2008 and the first half of 2009. The improvement in gross margin in the second half of 2009 was primarily due to increases in our capacity utilization, favorable product mix, improved manufacturing efficiency, and a focus on cost-control. In the second half of 2008 and the first half of 2009, gross margins were negatively impacted by declining average selling prices and rising raw material costs. In the second half of 2009 average selling prices have declined at a lower rate and raw material costs had stabilized somewhat.

Gross margin decreased to 24.6% of total revenue in 2008 from 34.8% of total revenue in 2007. Gross margin in 2008 and 2007 was positively impacted by net sales of approximately \$1.8 million and \$1.2 million, respectively, of GaAs wafers that were previously written off. In the second half of 2008 gross margins were negatively impacted by declining average selling prices and rising raw material costs. In addition gross margin fell during the fourth quarter of 2008 when our gallium joint venture in China, which is housed in and receives services from an affiliated aluminum plant, ceased production for five weeks during the fourth quarter. Accordingly, in order to meet customer supply obligations, our joint venture had to source finished products from another independent third party supplier, resulting in low gross margin for the quarter.

#### Selling, General and Administrative Expenses

				2008 to 2	009	2007 to 2	2008
	Year	s Ended Dec	2. 31,				
				Increase	%	Increase	%
	2009	2008	2007	(Decrease)	Change (	Decrease)	Change
			(\$ in	thousands)			
Selling, general							
and							
administrative	;						
expenses	\$13,389	\$15,751	\$13,746	\$ (2,362)	15.0%	\$ 2,005	14.6%
% of total							
revenue	24.29	6 21.69	% 23.69	%			

Selling, general and administrative expenses decreased \$2.4 million to \$13.4 million for 2009 compared to \$15.8 million for 2008. The decrease was primarily due to (i) the absence in 2009 of the \$0.7 million rent deposit forfeited in 2008 as a result of a termination of our existing lease (ii) \$0.5 million lower rental expense as we entered into a new lease for smaller headquarters facilities as a result of our forfeiture of the rental deposit with the termination of an old lease, (iii) \$0.5 million lower bad debt expenses as we improved collections from slow paying customers in China and North America, (iv) the absence in 2009 of \$0.2 million for bank fees in connection with our paydown of our revenue bond in July 2008, (v) \$0.2 million less travel expenses from cost cutting measures, (vi) \$0.2 million lower China factory labor costs from reduced bonuses and reduced hours worked in the first half of 2009, and (vi) \$0.1 million for lower joint venture labor related and consulting costs.

Selling, general and administrative expenses increased \$2.0 million to \$15.7 million for 2008 compared to \$13.7 million for 2007. The increase was primarily due to (i) \$1.1 million higher compensation and related expenses, (ii) \$0.7 million higher rental expense as a result of our forfeiture of the rental deposit with the termination of an old lease, (iii) \$0.3 million for increased health insurance and other insurance costs, (iv) \$0.1 million for higher bank fees as we paid off the taxable revenue bond in July 2008, (v) \$0.1 million for higher joint venture labor related and consulting costs,

(vi) \$0.1 million higher utility costs, and (vii) \$0.1 million higher stock compensation expenses as a result of annual option grants, partially offset by (viii) \$0.4 million lower legal expenses due to a refund from our insurance carrier, and (ix) \$0.1 million lower bad debt expense as aging improved from collections.

## Research and Development Expenses

				2008 to	2009	2007 to 2008			
	Year	s Ended De	c. 31,	·					
	2009	2008	2007	Increase (Decrease) (\$ in thousand	% Change ls)	Increase (Decrease)	% Change		
Research and									
development	t								
expenses	\$1,569	\$2,164	\$ 1,699	\$ (595)	27.59	%\$ 465	27.4%		
% of total									
revenue	2.89	% 3.09	% 2.99	%					

Research and development expenses decreased \$0.6 million, or 27.5%, to \$1.6 million for 2009, from \$2.2 million for 2008 mainly from \$0.4 million less labor costs as a result of our restructuring in March 2009 and the absence of bonus accruals in the first half of 2009, and \$0.2 million less outside consulting costs and new products testing costs.

Research and development expenses increased \$0.5 million, or 27.4%, to \$2.2 million for 2008, from \$1.7 million for 2007 mainly from increases of \$0.3 million in salary and related costs as a result of the appointment of our chief technology officer in late 2007 and increases of approximately \$0.2 million in new product testing costs.

We expect our rate of expenditure on research and development costs in 2010 to increase as we continue to improve on processes and also develop 6" Ge wafers. Research and development at our joint ventures has been minimal.

### Impairment (recovery of impairment) on Assets Held for Sale, and Restructuring Charges (Benefit)

					2	008 to	2009	2007 to 2008			
	Year	rs Ended	Dec.	31,							
					Incre	ease	%	Increase	%		
	2009	2008	2	2007	(Decr		Change	(Decrease	e) Change		
					(\$ in	thousar	nds)				
Impairment											
(recovery of											
impairment)											
on assets											
held for sale	\$ —	\$ 83	3 \$	(481)	\$	(83)	NM	\$ 56	54 117.3%		
% of total											
revenue	_	% <i>0</i> .	1%	(0.8)%	6						
Restructuring											
charge											
(benefit)	\$ 507	\$ -	- \$	_	\$	507	NM	N/.	A N/A		
% of total											
revenue	0.9	% –	-%	_%	,						
				-							

NM: percentage not meaningful

In the third quarter of 2006, we incurred an impairment charge of \$1.4 million to write down our U.S. property in Fremont, California, which was being decontaminated and was being prepared for sale. In the second quarter of 2007, we benefited from a recovery of impairment on this asset held for sale in connection with our adjustment of the fair value. We recorded a \$481,000 market value adjustment after we entered into an agreement with an independent third party purchaser in June 2007 to purchase the property for estimated net proceeds of \$5.1 million, after deducting estimated commission and selling expenses. In the fourth quarter of 2007, that agreement was terminated and we entered into a new sales agreement with another independent third party purchaser to purchase this property for a similar amount. The sale of the property was consummated in March 2008 and we recorded an \$83,000 impairment charge due to the final sales price of the property.

During the first quarter of 2009, we reduced the workforce at our Fremont and Beijing facilities by approximately 11 positions that were no longer required to support certain production and administrative operations. This measure was being taken as part of our 2009 operating plan. Accordingly, we recorded a restructuring charge of \$507,000 in March 2009 related to the reduction in force for severance-related expenses from the reduction in force, all of which were paid in the second quarter of 2009. We expect to save approximately \$1.3 million annually in payroll and related expenses. We had no restructuring charge in 2008 nor 2007.

#### Interest Income, Net

								2008 to	o 2009	_	2007 to	2008	
		Years	s Er	nded De	ec. 3	31,	]	Increase		I	ncrease		
	2	2009	_2	2008	2	2007	(I	Decrease)	% Chang	<u>e</u> (D	ecrease)	% Change	
								(\$ in thou	sands)				
Interest													
income,													
net	\$	177	\$	513	\$	704	\$	(336)	(65.:	5)%\$	(191)	(27.1)%	
% of total													
revenue		0.39	%	0.79	%	1.29	%						

Interest income, net decreased \$0.3 million to \$0.2 million for 2009 from \$0.5 million for 2008 as a result of lower balances of investments in debt and equity instruments in 2009 compared to 2008 as well as higher interest income in 2008 from accrued interest that was paid out from two investments that we had sold in the first half of 2008.

Interest income, net decreased \$0.2 million to \$0.5 million for 2008 from \$0.7 million for 2007 as a result of lower balances of our cash and investments used in operations, and lower interest rate yields compared to 2007.

## Other Income and Expense, Net, and Noncontrolling Interest

				_	2008 to	2009	2007 to	2008
	Yea	rs Ended Dec	2. 31,					
					crease	%	Increase	%
	2009	2008	2007	<u> </u>		Change	(Decrease)	Change
			(\$ iı	n the	ousands)			
Other income and								
expense, net	\$ 385	\$ 1,290	\$ 1,912	\$	(905)	(70.2)	%\$ (622	) (32.5)%
% of total								
revenue	0.7%	1.8%	3.3%	,				
Noncontrolling								
interest	\$(393)	\$(1,431)	\$(1,896)	\$	1,038	72.5%	\$ 465	24.5%
% of total								
revenue	(0.7)9	6 (2.0)%	(3.3)	6				

Other income and expense, net, was \$0.4 million in 2009 compared to other income and expense, net, of \$1.3 million in 2008. Other income, net was \$0.4 million for 2009 primarily due to investment gains of \$0.5 million from our minority-owned non-consolidated joint ventures, a realized gain of \$0.2 million on the sale of space in an office building owned by one of our joint ventures, partially offset by a \$0.2 million tax on foreign dividends and a \$0.1 million loss on sale of investments.

Other income and expense, net, was \$1.3 million in 2008 compared to other income and expense, net, of \$1.9 million in 2007. Other income, net was \$1.3 million for 2008 primarily due to a realized gain of \$0.4 million on the sale of investments and other income, and investment gains of \$0.9 million from our minority-owned non-consolidated joint ventures.

Other income and expense, net was \$1.9 million for 2007 primarily due to a realized gain of \$1.0 million on the sale of investments, investment gains of \$0.9 million from our minority-owned non-consolidating joint ventures, receipt of \$0.3 million mainly comprised of insurance proceeds and sale of fully depreciated assets, partially offset by a \$0.3 million expense for foreign exchange losses primarily related to the Japanese yen.

Minority interest in earnings of consolidated subsidiaries for the years ended December 31, 2009, 2008, and 2007 were (\$0.4) million, (\$1.4) million, and (\$1.9) million, respectively. The decrease in minority interest from 2007 to 2009 was due to the overall decrease in profitability from our majority-owned consolidated subsidiaries, particularly our gallium joint venture in China due to the worldwide drop in demand for 4N gallium. In particular, our China joint venture JiYa experienced the impact of the slowdown causing their customers to postpone or cancel orders while utilizing excess inventory.

#### **Provision for Income Taxes**

							2008 to 2009					2007 to 2008				
			Year	s Er	ded De	c. 3	1,	1	Increase			Iı	Increase			
		20	09	2	8008	2	007	(I	Decrease)	% Cl	nange	(D	ecrease)	% (	Change	
									(\$ in thous	sands)						
Provisi	ion															
for																
inco	me															
taxe	s	\$ 4	71	\$	1,023	\$	728	\$	(552)	(	54.0)9	%\$	295		40.5%	
% of	total															
re	venue	(	0.9%	o o	1.49	%	1.39	%								

Provision for income taxes for 2009 was \$471,000, which was mostly related to our foreign subsidiaries. The decrease in tax provision was a result of our China subsidiary qualifying for lower tax rates as a high and new technology enterprise in 2009 compared to the same period last year.

Provision for income taxes for 2008 was \$1.0 million, which was related to our foreign subsidiaries. The increase in provision for income taxes from 2007 to 2008 was due to the phasing out of Chinese tax holidays from some of our consolidated subsidiaries beginning 2008.

Due to our uncertainty regarding our future profitability, we recorded a full valuation allowance against our net deferred tax assets of \$54.7 million in 2009, \$54.4 million in 2008, and \$53.7 million in 2007.

Provision for income taxes for 2007 was \$728,000, which was mostly related to our foreign subsidiaries.

## **Liquidity and Capital Resources**

	Years	Ended Decemb	oer 31,
	2009	2008	2007
	(	\$ in thousands	)
Net cash provided by (used in):			
Operating activities	\$ 4,665	\$ (3,762)	\$ 1,909
Investing activities	2,365	3,832	(3,514)
Financing activities	(3,692)	(5,477)	3,335
Effect of exchange rate changes	30	593	534
Net change in cash and cash equivalents	3,368	(4,814)	2,264
Cash and cash equivalents—beginning period	13,566	18,380	16,116
Cash and cash equivalents—end of period	16,934	13,566	18,380
Short-term investments—end of period	18,469	17,756	20,825
Total cash, cash equivalents and short-term investments	\$ 35,403	\$ 31,322	\$ 39,205

We consider cash and cash equivalents, and short-term investments as liquid and available for use. Short-term investments are comprised of government bonds and high-grade commercial debt instruments. In December 2006 and January 2007, we generated approximately \$29 million in total proceeds as a result of our follow-on stock offering, and we utilized some of the proceeds in 2007, 2008 and 2009 mainly for working capital purposes. As of December 31, 2009, our principal sources of liquidity were \$35.4 million in cash and cash equivalents and short-term investments.

Cash and cash equivalents and short-term investments increased \$4.1 million to \$35.4 million from \$31.3 million as of December 31, 2008. The \$3.4 million combined increase in cash and cash equivalents was primarily due to net cash provided by operating activities of \$4.7 million, and net cash provided by investing activities of \$2.4 million, partially offset by net cash used in financing activities of \$3.7 million. Short-term investments increased by \$0.7 million to \$18.5 million from \$17.8 million.

Net cash provided by operating activities of \$4.7 million for 2009 was primarily comprised of our net loss of \$1.5 million, adjusted for non-cash items of depreciation of \$3.1 million, stock-based compensation of \$0.8 million, a restructuring charge of \$0.5 million, and a \$0.2 million loss on sale of investments, partially offset by a realized gain on sale of property, plant and equipment of \$0.2 million, and by a net decrease of \$1.9 million in assets and liabilities. The net decrease in assets and liabilities of \$1.9 million resulted from a \$7.4 million decrease in inventories, net, a \$0.7 million decrease in prepaid expenses, and a \$0.1 million increase in income taxes payable, partially offset by a \$3.9 million increase in accounts receivable, net, a \$1.1 million decrease in accounts payable, a \$0.8 million increase in other assets, a \$27,000 decrease in other long-term liabilities, and a \$0.5 million decrease in accounts payable, a \$0.8 million increase in other assets, a \$27,000 decrease in other long-term liabilities, and a \$0.5 million decrease in accounts payable, a \$0.8 million increase in other long-term liabilities.

Net cash used in operating activities of \$3.8 million for 2008 was primarily comprised of our net income of \$0.7 million, adjusted for non-cash items of depreciation of \$2.2 million, stock-based compensation of \$0.6 million, a \$0.1 million charge for impairment on assets held for sale, partially offset by a realized gain on sale of investments of \$0.3 million and offset by a net increase of \$7.1 million in assets and liabilities. The \$7.1 million net increase in assets and liabilities primarily resulted from a \$10.0 million increase in inventories, a \$0.1 million decrease in other long-term liabilities, a \$0.3 million decrease in income taxes payable and a \$0.1 million increase in other assets, partially offset by a \$2.2 million increase in accounts payable, a \$0.8 million decrease in accounts receivable, and a \$0.5 million decrease in prepaid expenses. Inventories, net, increased by \$10.0 million, as we increased inventory in raw materials and work-in-process to increase production in anticipation of increased forecast sales, and finished goods for consignment orders.

Net cash provided by investing activities of \$2.4 million for the year ended December 31, 2009 included a decrease in our restricted deposits of \$3.0 million, net proceeds from investment securities totaling \$0.9 million, proceeds from the sale of property, plant and equipment of \$0.4 million, partially offset by purchases of property and equipment of \$1.9 million.

Net cash provided by investing activities of \$3.8 million for the year ended December 31, 2008 was primarily from the proceeds from the sale of investments of \$24.5 million, proceeds from sale of assets held for sale of \$5.1 million and the decrease of restricted cash of \$3.7 million, partially offset by the purchase of investments totaling \$22.6 million, and the purchase of property, plant and equipment of \$6.8 million.

In 2010 we expect to invest up to approximately \$7 million in projects at our China facilities, having delayed these as a result of the impact of the 2009 worldwide economic conditions.

Net cash used in financing activities was \$3.7 million for the year ended December 31, 2009 and consisted of \$3.1 million paying down our line of credit and long-term debt, \$1.0 million of dividends paid, partially offset by \$0.4 million from the proceeds from the exercise of employee stock options.

Net cash used in financing activities of \$5.5 million for the year ended December 31, 2008 consisted of a payment of \$6.7 million related to long term debt, \$2.0 million dividends paid, partially offset by \$3.0 million from the proceeds of a line of credit and \$0.2 million from the proceeds from the exercise of employee stock options.

We believe that we have adequate cash and investments to meet our needs over the next 12 months. If our sales decrease, however, our ability to generate cash from operations will be adversely affected which could adversely affect our future liquidity, require us to use cash at a more rapid rate than expected, and require us to seek additional capital. There can be no assurance that such additional capital will be available or, if available it will be on terms acceptable to us. Cash from operations could be affected by various risks and uncertainties, including, but not limited to those set forth below under Item 1A. "Risk Factors" above.

#### Off-Balance Sheet Arrangements

We do not have any off-balance sheet financing arrangements and have never established any special purpose entities. We have not entered into any options on non-financial assets.

## **Contractual Obligations**

As of December 31, 2008, the credit facility maintained by us with a bank included a line of credit with an outstanding amount of \$3.0 million. We have pledged the same amount in cash as collateral for this facility. Accordingly, \$3.0 million of our cash and short-term investments are restricted. This line of credit was paid down in full in the fourth quarter of 2009.

We lease certain office space, manufacturing facilities and property under long-term operating leases expiring at various dates through November 2013. On July 2, 2008, we entered into a new lease agreement with the landlord of the facility at 4281 Technology Drive, Fremont, California with approximately 27,760 square feet. The new lease commenced December 1, 2008 for a term of seven years, with an option by us to cancel the new lease after five years, upon forfeiture of the security deposit and payment of one-half of the fifth year's rent. Total rent expenses under these operating leases were approximately \$0.3 million, 1.7 million (including a \$0.7 million forfeiture of rental deposit in terminating the old lease), and \$0.5 million for years ended December 31, 2009, 2008 and 2007, respectively.

The following table summarizes our contractual obligations as of December 31, 2009 (in thousands):

	Payments due by period										
			1-3	3-5	More than						
Contractual Obligations	Total	Less than 1 year	years	years	5 years						
Tenant improvement loan	\$ 496	\$ 76	\$ 161	\$ 174	\$ 85						
Operating leases	1,740	309	557	588	286						
Total	\$ 2,236	\$ 385	\$ 718	\$ 762	\$ 371						

## Selected Quarterly Results of Operations

The following table sets forth unaudited quarterly results for the eight quarters ended December 31, 2009. We believe that all necessary adjustments, consisting only of normal recurring adjustments, have been included in the amounts stated below to present fairly such quarterly

information. The operating results for any quarter are not necessarily indicative of results for any subsequent period.

				Quarter	s Ended			
(in thousands, except for per share amounts)	Dec. 31, 2009	Sept. 30, 2009	June 30, 2009	Mar. 31, 2009	Dec. 31, 2008	Sept. 30, 2008	June 30, 2008	Mar. 31, 2008
Revenue	\$17,836	\$16,819	\$13,055	\$ 7,654	\$15,646	\$17,863	\$19,932	\$19,634
Cost of revenue	11,784	11,281	10,539	7,891	14,888	13,326	13,488	13,413
Gross profit	6,052	5,538	2,516	(237)	758	4,537	6,444	6,221
Operating expenses:								
Selling, general								
and								
administrative	2,574	3,323	3,486	4,006	3,605	4,901	3,578	3,667
Research and	204	260	255	160	520	560	560	504
development	394	360	355	460	529	562	569	504
Impairment								
(recovery of impairment) on								
assets held for								
sale								83
Restructuring	<u> </u>	<u>—</u>	_	<u>—</u>	<u>—</u>	_	_	0.5
charge				507				
				307				
Total operating	2.060	2.692	2.041	4.072	4 124	5 462	4 1 4 7	4.054
expenses	2,968	3,683	3,841	4,973	4,134	5,463	4,147	4,254
Income (loss) from								
operations	3,084	1,855	(1,325)	. , ,		` ′		1,967
Interest income, net	60	39	34	44	80	68	241	124
Other income and								
(expense), net	(152)	638	321	(422)	583	298	(518)	927
Income (loss) before	;							
provision								
(benefit) for								
income taxes	2,992	2,532	(970)	(5,588)	(2,713)	(560)	2,020	3,018
Provision (benefit)								
for income taxes	(42)	201	308	4	(349)	177	635	560
Net income (loss)	3,034	2,331	(1,278)	(5,592)	(2,364)	(737)	1,385	2,458
Less: Net income								
(loss)								
attributable to								
noncontrolling								
interest	257	210	2	(76)	7	277	648	499
Net income (loss)								
from continuing								
operations								
attributable to								
AXT, Inc	\$ 2,777	\$ 2,121	\$ (1,280)	\$ (5,516)	\$ (2,371)	\$(1,014)	\$ 737	\$ 1,959
Net income (loss)								
attributable to								
AXT, Inc. per								
common share:								
Basic	\$ 0.09	\$ 0.07	\$ (0.04)	\$ (0.18)	\$ (0.08)	\$ (0.03)	\$ 0.02	\$ 0.06
Diluted	\$ 0.09	\$ 0.07	\$ (0.04)	\$ (0.18)	\$ (0.08)	\$ (0.03)	\$ 0.02	\$ 0.06
Diluca	φ 0.09	Ψ 0.07	Ψ (0.04)	Ψ (0.10)	Ψ (0.00)	Ψ (0.03)	Ψ 0.02	Ψ 0.00

Weighted average								
number of								
common shares								
outstanding:								
Basic	30,647	30,475	30,439	30,434	30,434	30,455	30,421	30,367
Diluted	31,322	30,911	30,439	30,434	30,434	30,455	31,562	31,585

## Recent Accounting Pronouncements

In September 2006, FASB issued ASC topic 820, Fair Value Measurements and Disclosures ("ASC 820"). ASC 820 provides guidance for using fair value to measure assets and liabilities and also responds to investors' requests for expanded information about the extent to which companies measure assets and liabilities at fair value, the information used to measure fair value and the effect of fair

value measurements on earnings. ASC 820 applies whenever other standards require (or permit) assets or liabilities to be measured at fair value. ASC 820 does not expand the use of fair value in any new circumstances. The Company adopted ASC 820 on January 1, 2008 for all financial assets and liabilities recognized or disclosed at fair value in its consolidated financial statements on a recurring basis (at least annually). In February 2008, the FASB amended ASC 820, providing a one year deferral for implementation of the standard for non-recurring, non-financial assets and liabilities, except for items that are recognized or disclosed at fair value in the financial statements on a recurring basis (at least annually). The Company adopted ASC 820 on January 1, 2009 for nonfinancial assets and liabilities. The Company's adoption of ASC 820 did not have a material impact on its nonfinancial assets and liabilities or on its financial position and results of operations, other than requiring additional disclosures. Refer to Note 2.

In December 2007, the FASB issued ASC topic 805, *Business Combinations* ("ASC 805"). ASC 805 establishes revised principles and requirements for the recognition and measurement of assets and liabilities in a business combination. ASC 805 requires (i) recognition of 100% of the fair value of acquired assets, including goodwill, and assumed liabilities upon obtaining control, (ii) contingent consideration to be recorded at fair value at the acquisition date, (iii) transaction costs to be expensed as incurred, (iv) pre-acquisition contingencies to be accounted for at the acquisition date at fair value and (v) costs of a plan to exit an activity or terminate or relocate employees to be accounted for as post-combination costs. The provisions of this standard will apply to any acquisitions we complete on or after December 15, 2008. The Company adopted ASC 805 on January 1, 2009. There was no impact upon adoption of on our consolidated financial statements and its effects on future periods will depend on the nature and extent of business combinations that we complete, if any, in or after fiscal 2009.

In December 2007, the FASB issued ASC topic 810, *Consolidation* ("ASC 810"). ASC 810 clarifies the classification of noncontrolling interests in consolidated statements of financial position and the accounting for and reporting of transactions between the reporting entity and holders of such noncontrolling interests. The provisions of ASC 810 were applied to all noncontrolling interests prospectively, except for the presentation and disclosure requirements, which were applied retrospectively to all periods presented and have been disclosed as such in our consolidated financial statements herein. ASC 810 became effective for fiscal years beginning on or after December 15, 2008. The Company adopted ASC 810 on January 1, 2009. Upon adoption of ASC 810, the Company has recognized noncontrolling interests as equity in the consolidated balance sheets and has reflected net income attributable to noncontrolling interests in consolidated net income.

In March 2008, the FASB issued ASC topic 815, *Derivatives and Hedging* ("ASC 815"). ASC 815 requires expanded disclosures about (i) how and why an entity uses derivative instruments, (ii) how derivative instruments and related hedged items are accounted for ASC 815 and its related interpretations, and (iii) how derivative instruments and related hedged items affect an entity's financial position, financial performance and cash flows. ASC 815 was effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2008. The Company adopted ASC 815 on January 1, 2009. We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In May 2008, the FASB issued ASC topic 470, *Debt, subtopic 20, Debt with Conversion and Other Options* ("ASC 470-20"). We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In June 2008, the FASB issued ASC topic 260, *Earnings per Share* ("ASC 260"). ASC 260 was issued to clarify that unvested share-based payment awards with a right to receive nonforfeitable dividends are participating securities and to provide guidance on how to allocate earnings to participating securities and compute basic earnings per share using the two-class method. ASC 260 was effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim periods within those years and requires retrospective application. The Company adopted ASC 260 on

January 1, 2009 and applied it retrospectively to all periods presented. We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In April 2009, the FASB amended ASC topic 805, *Business Combinations* ("ASC 805"). ASC 805 requires that assets acquired and liabilities assumed in a business combination that arise from contingencies be recognized at fair value if fair value can be reasonably estimated. If fair value cannot be reasonably estimated, the asset or liability would generally be recognized in accordance with ASC topic 450, Contingencies ("ASC 450"). Further, the FASB removed the subsequent accounting guidance for assets and liabilities arising from contingencies from ASC topic 805, *Business Combinations*, subtopic 20, *Identifiable Assets and Liabilities and Any Noncontrolling Interest* ("ASC 805-20"). The requirements of this ASC carry forward without significant revision the guidance on contingencies of ASC 805 which was superseded by ASC 805-20. The ASC also eliminates the requirement to disclose an estimate of the range of possible outcomes of recognized contingencies at the acquisition date. For unrecognized contingencies, the FASB requires that entities include only the disclosures required by ASC 805-20 as modified is required to be applied prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. The adoption of ASC 805-20, as of January 1, 2009 had no impact on our consolidated financial statements and its effects on future periods will depend on the nature and extent of business combinations that we complete, if any, in or after fiscal 2009.

In April 2009, the FASB issued ASC topic 825, *Financial Instruments* ("ASC 825"). ASC 825 requires disclosures about fair value of financial instruments in interim reporting periods. Such disclosures were previously required only in annual financial statements. ASC 825 was effective for interim periods ending after June 15, 2009. The Company adopted ASC 825 in the second quarter of 2009 and has included the required disclosures in its consolidated financial statements. Refer to Note 2.

In April 2009, ASC 320, *Investments—Debt and Equity Securities*("ASC 320"). ASC 320 provides greater clarity about the credit and noncredit component of an other-than-temporary impairment event and more effectively communicates when an other-than-temporary impairment event has occurred. ASC 320 amends the other-than-temporary impairment model for debt securities. The impairment model for equity securities was not affected. Under ASC 320, an other-than-temporary impairment must be recognized through earnings if an investor has the intent to sell the debt security or if it is more likely than not that the investor will be required to sell the debt security before recovery of its amortized cost basis. This standard was effective for interim periods ending after June 15, 2009. The Company adopted ASC 825 in the second quarter of 2009. We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In May 2009, the FASB issued ASC topic 855-Subsequent Events ("ASC 855"). The statement defines the period after the balance sheet date during which management shall evaluate transactions for potential recognition or disclosure in the financial statements, the circumstances in which an entity shall recognize a subsequent event in its financial statements and the disclosures an entity shall make about subsequent events. This topic was effective for interim or annual periods ending after June 15, 2009. The Company adopted the topic as required and its adoption did not impact the consolidated financial statements other than the required additional disclosures.

In June 2009, the FASB issued ASC topic 810—Amendments of FASB Interpretation No. 46(R) ("ASC 810"). The emphasis of this statement is to improve financial reporting by enterprises involved with variable interest entities. The statement also addresses the effects on certain provisions of FASB Interpretation No. 46 (revised December 2003), "Consolidation of Variable Interest Entities," as a result of the elimination of the qualifying special-purpose entity concept in SFAS No. 166 and the application of certain key provisions of FASB Interpretation No. 46(R). This topic is effective as of the beginning of the first annual reporting period after November 15, 2009 for interim periods within that first annual reporting period, and for interim and annual reporting periods thereafter. The adoption of ASC 810 is not expected to have a material impact on the Company's consolidated financial statements.

In June 2009, the FASB approved ASC topic 105, *Generally Accepted Accounting Principles* ("ASC 105", "Codification"), which establishes the Codification as the single source of authoritative nongovernmental U.S. GAAP. The Codification does not change current U.S. GAAP, but is intended to simplify user access to all authoritative U.S. GAAP by providing all the authoritative literature related to a particular topic in one place. All existing accounting standard documents will be superseded and all other accounting literature not included in the Codification will be considered nonauthoritative. The Codification combines all authoritative standards into a comprehensive, topically organized database. Since the Codification will completely replace existing standards, all future references to authoritative accounting literature references in the Company's financial statements will be in accordance with the Codification. The Codification is effective for interim and annual periods ending after September 15, 2009. The Company adopted ASC 105 in the third quarter of 2009. We have determined that there is no impact from adopting the Codification on our consolidated financial statements.

In various areas, including revenue recognition, stock option accounting, accounting standards and practices continue to evolve. Additionally, the SEC and the FASB's Emerging Issues Task Force continue to address revenues, stock option accounting related accounting issues. We believe that we are in compliance with all of the rules and related guidance as they currently exist. However, any changes to accounting principles generally accepted in the United States of America in these areas could impact the future accounting of our operations.

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

#### Foreign Currency Risk

A significant portion of our business is conducted in currencies other than the U.S. dollar. The functional currency for our foreign operations is the renminbi, the local currency of China, where our operating expenses are predominantly in the local currency. Since most of our operations are conducted in China, most of our costs are incurred in Chinese currency, which subjects us to fluctuations in the exchange rates between the U.S. dollar and the Chinese renminbi. We incur transaction gains or losses resulting from consolidation of expenses incurred in local currencies for these subsidiaries, as well as in translation of the assets and liabilities of these assets at each balance sheet date. These risks may be increased by the fluctuations and revaluations of the Chinese renminbi. Our financial results could be adversely affected by factors such as changes in foreign currency exchange rates or weak economic conditions in foreign markets, including the revaluation by China of the renminbi, and any future adjustments that China may make to its currency such as any move it might make to a managed float systems with opportunistic interventions. In the future we may experience foreign exchange losses on our non-functional currency denominated receivables and payables to the extent that we have not mitigated our exposure utilizing foreign currency forward exchange contracts. Foreign exchange losses could have a materially adverse effect on our operating results and cash flows.

We do not currently use short-term forward exchange contracts for hedging purposes to reduce the effects of adverse foreign exchange rate movements. We had previously purchased foreign exchange contracts to hedge against certain trade accounts receivable denominated in Japanese yen. The change in the fair value of the forward contracts was recognized as part of the related foreign currency transactions as they occur. As of December 31, 2009 and 2008, we had no outstanding commitments with respect to foreign exchange contracts.

During 2009, we recorded a net realized foreign exchange loss of \$76,000, included as part of other expense in our consolidated statements of operations. We incurred foreign currency transaction exchange gains and losses due to operations in general. It is uncertain whether these currency trends will continue. In the future we may experience foreign exchange losses on our non-functional currency denominated receivables and payables to the extent that we have not mitigated our exposure utilizing

foreign currency forward exchange contracts. Foreign exchange losses could have a materially adverse effect on our operating results and cash flows. During 2009, we recorded unrealized foreign currency losses of \$30,000 included in the balance of accumulated other comprehensive income on our consolidated balance sheet.

In July 2005, China agreed to a shift in Chinese currency policy. It established a 2% revaluation of the renminbi and referenced the renminbi to a basket of currencies, with a daily trading band of +/-0.3%. Depending on market conditions and the state of the Chinese economy, it is possible that China will make more adjustments in the future. Over the next five to ten years, China may move to a managed float system, with opportunistic interventions. This reserve diversification may negatively impact the United States dollar and U.S. interest rates, which, in turn, could negatively impact our operating results and financial condition. The functional currency of our Chinese subsidiary, including our joint ventures, is the local currency; since most of our operations are conducted in China, most of our costs are incurred in Chinese currency, which subjects us to fluctuations in the exchange rates between the U.S. dollar and the Chinese renminbi. We incur transaction gains or losses resulting from consolidation of expenses incurred in local currencies for these subsidiaries, as well as in translation of the assets and liabilities of these assets at each balance sheet date. These risks may be increased by the fluctuation and revaluation of the Chinese renminbi. If we do not effectively manage the risks associated with this currency risk, our revenue, cash flows and financial condition could be adversely affected.

#### Interest Rate Risk

Cash and cash equivalents earning interest and certain variable rate debt instruments are subject to interest rate fluctuations. The following table sets forth the probable impact of a 10% change in interest rates (in thousands):

Instrument	Balance as of December 31, 2009		Interest	Proforma 10% Interest Rate Decline Income/(Expense)	Proforma 10% Interest Rate Increase Income/(Expense)
Cash	\$ 16,790	0.509	% \$ 84	\$ 76	\$ 92
Cash					
equivalents	144	2.18	3	3	3
Investment in					
debt and					
equity					
instruments	18,469	4.76	879	791	967
Tenant					
improvement	t				
loan	(496)	4.00	(20)	(18)	(22)
			\$ 946	\$ 852	\$ 1,040

The primary objective of our investment activities is to preserve principal while maximizing income without significantly increasing risk. Financial instruments that potentially subject us to concentration of credit risk consist primarily of cash and cash equivalents, short-term investments, and trade accounts receivable. We invest primarily in money market accounts, commercial paper instruments, and investment grade securities. We are exposed to credit risks in the event of default by the issuers to the extent of the amount recorded on the consolidated balance sheets. These securities are generally classified as available-for-sale and consequently are recorded on the balance sheet at fair value with unrealized gains or losses reported as a separate component of accumulated other comprehensive income (loss), net of estimated tax. Our cash, cash equivalents and short-term investments are in high-quality securities placed with major banks and financial institutions and commercial paper. We have no investments in auction rate securities. As of December 31, 2009, we have approximately \$18.3 million in principal protected notes with Citicorp with a fair value of approximately \$18.5 million. We expect to decrease our exposure to Citicorp as these principal protected notes come due and the underlying assets are placed into diversified securities.

We perform periodic credit evaluations of our customers' financial condition and generally do not require collateral. One customer accounted for 10% or more of our trade accounts receivable balance as of December 31, 2009 at 27%. Four customers each accounted for 10% or more of our trade accounts receivable balance as of December 31, 2008 one at 34%, two at 11%, and one at 10%, respectively.

#### Equity Risk

We maintain minority investments in privately-held companies. These investments are reviewed for other than temporary declines in value on a quarterly basis. These investments are classified as other assets in the consolidated balance sheets and are accounted for under the cost method as we do not have the ability to exercise significant influence over their operations. We monitor our investments for impairment and record reductions in carrying value when events or changes in circumstances indicate that the carrying value may not be recoverable. Reasons for other than temporary declines in value include whether the related company would have insufficient cash flow to operate for the next twelve months, significant changes in the operating performance and changes in market conditions. As of December 31, 2009 and 2008, the minority investments totaled \$0.4 million for both years.

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

The consolidated financial statements, related notes thereto and financial statement schedule required by this item are listed and set forth beginning on page 59, and is incorporated by reference here. Supplementary financial information regarding quarterly financial information required by this item is set forth under the caption "Selected Quarterly Results of Operations" in Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations," and is incorporated by reference here.

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

None.

#### Item 9A. Controls and Procedures

Evaluation of disclosure controls and procedures. Disclosure controls and procedures are those controls and procedures designed to ensure that information required to be disclosed in our reports filed under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including the principal executive officer and principal financial officer, to allow timely decisions regarding required disclosure.

As of the end of the period covered by this report, we evaluated the effectiveness of the design and operation of our disclosure controls and procedures pursuant to the rules and regulations promulgated under the Securities Exchange Act of 1934, as amended. This evaluation was done under the supervision and with the participation of our principal executive officer and principal financial officer and other management. Based upon this evaluation, our principal executive officer and principal financial officer have concluded that our disclosure controls and procedures were effective as of December 31, 2008 to provide a reasonable level of assurance that the financial information we are required to disclose in the reports we file or submit under the Exchange Act was recorded, processed, summarized and reported accurately within the time periods specified in the SEC's rules and forms.

#### Management's report on internal control over financial reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act.

Internal control over financial reporting is a process designed by, or under the supervision of, our principal executive officer and principal financial officer, and implemented by our Board of Directors, management and other personnel to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with accounting principles generally accepted in the United States. Internal control over financial reporting includes those policies and procedures that:

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

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

Our management, under the supervision and with the participation of our principal executive officer and principal financial officer, has assessed the effectiveness of our internal control over financial reporting as of December 31, 2009 based on the criteria established in *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Management has concluded that our internal control over financial reporting was effective as of December 31, 2009.

This annual report does not include an attestation report of the Company's registered public accounting firm regarding internal control over financial reporting. Management's report was not subject to attestation by the Company's registered public accounting firm pursuant to temporary rules of the Securities and Exchange Commission that permit the Company to provide only management's report in this annual report.

Changes in internal control over financial reporting. There were no changes in our internal control over financial reporting that occurred during the quarter ended December 31, 2009 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None.

#### PART III

The United States Securities and Exchange Commission ("SEC") allows us to include information required in this report by referring to other documents or reports we have already or will soon be filing. This is called "Incorporation by Reference." We intend to file our definitive proxy statement pursuant to Regulation 14A not later than 120 days after the end of the fiscal year covered by this report, and certain information therein is incorporated in this report by reference.

#### Item 10. Directors, Executive Officers and Corporate Governance

The information required by this item with respect to identification of directors is incorporated by reference to the information contained in the section captioned "Information About our Board of Directors" in the Proxy Statement. The information with respect to our executive officers, is incorporated by reference to the information contained in the section captioned "Executive Officers" in the Proxy Statement. Information with respect to Items 405 of Regulation S-K is incorporated by reference to the information contained in the sections of the Proxy Statement captioned "Section 16(a) Beneficial Ownership Reporting Compliance." There will be no disclosure under Item 407(c)(3). Information with respect to Items 407(d)(4) and 407(d)(5) is incorporated by reference to the information contained in the sections of the Proxy Statement captioned "Corporate Governance—Committees of thBoard of Directors."

The Board of Directors of AXT, Inc. has adopted a Code of Conduct and Ethics (the "Code") that applies to our principal executive officers, principal financial officer, and corporate controller, as well as other employees. A copy of this Code has been posted on our Internet website at www.axt.com. Any amendments to, or waivers from, a provision of our Code that applies to our principal executive officer, principal financial officer, controller, or persons performing similar functions and that relates to any element of the Code enumerated in paragraph (b) of Item 406 of Regulation S-K shall be disclosed by posting such information on our website.

#### Item 11. Executive Compensation

The information required by this Item is incorporated herein by reference to information set forth in our definitive Proxy statement to be filed in connection with our annual meeting of stockholders to be held on May 18, 2010, under the section entitled "Executive Compensation and Other Matters."

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

The information required by this Item is incorporated herein by reference to information set forth in our definitive Proxy statement to be filed in connection with our annual meeting of stockholders to be held on May 18, 2010, under the section entitled "Security Ownership of Certain Beneficial Owners and Management and Equity Compensation Plan Information."

#### Item 13. Certain Relationships and Related Transactions and Director Independence

Information required by this item will be set forth in the Proxy Statement for the 2010 Annual Meeting of Stockholders under the headings "Compensation Committee Interlocks and Insider Participation" and "Certain Relationships and Related Transactions," which information is incorporated herein by reference.

## Item 14. Principal Accounting Firm Fees and Services

The information required by this Item is incorporated herein by reference to information set forth in our definitive Proxy statement to be filed in connection with our annual meeting of stockholders to be held on May 18, 2010, under the section entitled "Principal Accounting Firm Fees."

## **PART IV**

## Item 15. Exhibits and Financial Statement Schedules

- (a) The following documents are filed as part of this report:
- (1) Financial Statements:

## INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

Report of Independent Registered Public Accounting Firm, Burr Pilger Mayer, Inc.	<u>61</u>
Consolidated Balance Sheets	<u>62</u>
Consolidated Statements of Operations	<u>63</u>
Consolidated Statements of Stockholders' Equity	<u>64</u>
Consolidated Statements of Cash Flows	<u>65</u>
Notes to Consolidated Financial Statements	<u>66</u>

## (2) Financial Statement Schedules

All schedules have been omitted because the required information is not applicable or because the information required is included in the consolidated financial statements or notes thereto.

## (b) Exhibits

See Index to Exhibits attached elsewhere to this Form 10-K. The exhibits listed in the accompanying Index to Exhibits are filed as part of, or incorporated by reference into, this report on Form 10-K.

#### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of AXT, Inc.

We have audited the accompanying consolidated balance sheets of AXT, Inc. and its subsidiaries (the "Company") as of December 31, 2009 and 2008, and the related consolidated statements of operations, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2009. These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

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

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of AXT, Inc. and its subsidiaries as of December 31, 2009 and 2008, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2009, in conformity with accounting principles generally accepted in the United States of America.

/s/ Burr Pilger Mayer, Inc.

San Jose, California March 19, 2010

# AXT, INC.

# CONSOLIDATED BALANCE SHEETS

		Decemb	er 3	31,
	_	2009	_	2008
		(In thousan		-
ASSETS		•		Í
Current assets				
Cash and cash equivalents	\$	16,934	\$	13,566
Short-term investments		18,469		17,756
Accounts receivable, net of allowances of \$1,019 and \$663 as of December 31, 2009 and				
2008, respectively		15,362		11,497
Inventories		27,718		35,082
Prepaid expenses and other current assets		2,411		3,131
Total current assets		80,894		81,032
Property, plant and equipment, net		20,853		22,184
Restricted deposits		_		3,013
Other assets		6,199		5,433
Total assets	\$	107,946	\$	111,662
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities				
Accounts payable	\$	5,571	\$	6,657
Accrued liabilities		2,170		1,967
Accrued compensation and related charges		1,093		764
Accrued product warranty		1,082		1,640
Line of credit		_		3,013
Current portion of long-term debt		76		73
Income taxes payable		221		82
Total current liabilities	_	10,213		14,196
Long-term debt, net of current portion		420		496
Other long-term liabilities		62	_	94
Total liabilities		10,695		14,786
Commitments and contingencies (Note 17)		-		_
Stockholders' equity:				
Preferred stock, \$0.001 par value; 2,000 shares authorized; 883 shares issued and				
outstanding as of December 31, 2009 and 2008 (Liquidation preference of \$5.4 million				
and \$5.2 million as of December 31, 2009 and 2008, respectively)		3,532		3,532
Common stock, \$0.001 par value; 70,000 shares authorized; 30,880 and 30,513 shares				
issued and outstanding as of December 31, 2009 and 2008, respectively		30		30
Additional paid-in-capital		187,871		186,754
Accumulated deficit		(101,130)		(99,232)
Other comprehensive income	_	4,300	_	2,580
Total AXT, Inc. stockholders' equity		94,603		93,664
Noncontrolling interests		2,648	_	3,212
Total stockholders' equity		97,251		96,876
Total liabilities and stockholders' equity	\$	107,946	\$	111,662

AXT, INC.

# CONSOLIDATED STATEMENTS OF OPERATIONS

Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         8         (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16		Years	Ended Decemb	oer 31,
Revenue         \$ 55,364         \$ 73,075         \$ 58,203           Cost of revenue         41,495         55,115         37,942           Gross profit         13,869         17,960         20,261           Operating expenses:         Selling, general, and administrative         13,389         15,751         13,746           Research and development         1,569         2,164         1,699           Impairment (recovery) on assets held for sale         —         83         (481)           Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,				
Cost of revenue         41,495         55,115         37,942           Gross profit         13,869         17,960         20,261           Operating expenses:           Selling, general, and administrative         13,389         15,751         13,746           Research and development         1,569         2,164         1,699           Impairment (recovery) on assets held for sale         —         83         (481)           Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, I		(In thou		er share
Gross profit         13,869         17,960         20,261           Operating expenses:         Selling, general, and administrative         13,389         15,751         13,746           Research and development         1,569         2,164         1,699           Impairment (recovery) on assets held for sale         —         83         (481)           Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc.         \$ (1,898)         \$ (689)         \$ 5,289           Net income (loss) attributable to AXT	Revenue	\$ 55,364	\$ 73,075	\$ 58,203
Operating expenses:         Selling, general, and administrative       13,389       15,751       13,746         Research and development       1,569       2,164       1,699         Impairment (recovery) on assets held for sale       —       83       (481)         Restructuring charge       507       —       —         Total operating expenses       15,465       17,998       14,964         Income (loss) from continuing operations       (1,596)       (38)       5,297         Interest income, net       177       513       704         Other income, net       177       513       704         Other income (loss) from continuing operations before provision (benefit) for income taxes       (1,034)       1,765       7,913         Provision for income taxes       471       1,023       728         Net (loss) income       (1,505)       742       7,185         Less: Net income attributable to noncontrolling interest       393       1,431       1,896         Net income (loss) attributable to AXT, Inc. per common share:       8       (1,898)       6689       5,289         Net income (loss) attributable to AXT, Inc. per common share:       8       (0,007)       8       (0,003)       0,16         Diluted <td>Cost of revenue</td> <td>41,495</td> <td>55,115</td> <td>37,942</td>	Cost of revenue	41,495	55,115	37,942
Selling, general, and administrative         13,389         15,751         13,746           Research and development         1,569         2,164         1,699           Impairment (recovery) on assets held for sale         —         83         (481)           Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc. per common share:         8         (1,898)         (689)         5,289           Net income (loss) attributable to AXT, Inc. per common share:         8         (0,007)         (0,003)         0,16	Gross profit	13,869	17,960	20,261
Research and development       1,569       2,164       1,699         Impairment (recovery) on assets held for sale       —       83       (481)         Restructuring charge       507       —       —         Total operating expenses       15,465       17,998       14,964         Income (loss) from continuing operations       (1,596)       (38)       5,297         Interest income, net       177       513       704         Other income, net       385       1,290       1,912         Income (loss) from continuing operations before provision (benefit) for income taxes       (1,034)       1,765       7,913         Provision for income taxes       471       1,023       728         Net (loss) income       (1,505)       742       7,185         Less: Net income attributable to noncontrolling interest       393       1,431       1,896         Net income (loss) attributable to AXT, Inc.       \$ (1,898)       \$ (689)       \$ 5,289         Net income (loss) attributable to AXT, Inc. per common share:       \$ (0.07)       \$ (0.03)       \$ 0.17         Diluted       \$ (0.07)       \$ (0.03)       \$ 0.16	Operating expenses:			
Impairment (recovery) on assets held for sale         —         83         (481)           Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc.         \$(1,898)         \$(689)         \$5,289           Net income (loss) attributable to AXT, Inc. per common share:         \$(0.07)         \$(0.03)         \$0.17           Diluted         \$(0.07)         \$(0.03)         \$0.16	Selling, general, and administrative	13,389	15,751	13,746
Restructuring charge         507         —         —           Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         8         (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	Research and development	1,569	2,164	1,699
Total operating expenses         15,465         17,998         14,964           Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         \$ (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         8         (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	Impairment (recovery) on assets held for sale	_	83	(481)
Income (loss) from continuing operations         (1,596)         (38)         5,297           Interest income, net         177         513         704           Other income, net         385         1,290         1,912           Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         \$ (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         \$ (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	Restructuring charge	507	_	
Interest income, net       177       513       704         Other income, net       385       1,290       1,912         Income (loss) from continuing operations before provision (benefit) for income taxes       (1,034)       1,765       7,913         Provision for income taxes       471       1,023       728         Net (loss) income       (1,505)       742       7,185         Less: Net income attributable to noncontrolling interest       393       1,431       1,896         Net income (loss) attributable to AXT, Inc       \$ (1,898)       \$ (689)       \$ 5,289         Net income (loss) attributable to AXT, Inc. per common share:       \$ (0.07)       \$ (0.03)       \$ 0.17         Diluted       \$ (0.07)       \$ (0.03)       \$ 0.16	Total operating expenses	15,465	17,998	14,964
Other income, net       385       1,290       1,912         Income (loss) from continuing operations before provision (benefit) for income taxes       (1,034)       1,765       7,913         Provision for income taxes       471       1,023       728         Net (loss) income       (1,505)       742       7,185         Less: Net income attributable to noncontrolling interest       393       1,431       1,896         Net income (loss) attributable to AXT, Inc       \$ (1,898)       \$ (689)       \$ 5,289         Net income (loss) attributable to AXT, Inc. per common share:         Basic       \$ (0.07)       \$ (0.03)       \$ 0.17         Diluted       \$ (0.07)       \$ (0.03)       \$ 0.16	Income (loss) from continuing operations	(1,596)	(38)	5,297
Income (loss) from continuing operations before provision (benefit) for income taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         \$ (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         \$ (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	Interest income, net	177	513	704
taxes         (1,034)         1,765         7,913           Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         \$ (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	Other income, net	385	1,290	1,912
Provision for income taxes         471         1,023         728           Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:         \$ (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	Income (loss) from continuing operations before provision (benefit) for income			
Net (loss) income         (1,505)         742         7,185           Less: Net income attributable to noncontrolling interest         393         1,431         1,896           Net income (loss) attributable to AXT, Inc         \$ (1,898)         \$ (689)         \$ 5,289           Net income (loss) attributable to AXT, Inc. per common share:           Basic         \$ (0.07)         \$ (0.03)         \$ 0.17           Diluted         \$ (0.07)         \$ (0.03)         \$ 0.16	taxes	(1,034)	1,765	7,913
Less: Net income attributable to noncontrolling interest       393       1,431       1,896         Net income (loss) attributable to AXT, Inc       \$ (1,898)       \$ (689)       \$ 5,289         Net income (loss) attributable to AXT, Inc. per common share:       Basic       \$ (0.07)       \$ (0.03)       \$ 0.17         Diluted       \$ (0.07)       \$ (0.03)       \$ 0.16	Provision for income taxes	471	1,023	728
Net income (loss) attributable to AXT, Inc       \$ (1,898)       \$ (689)       \$ 5,289         Net income (loss) attributable to AXT, Inc. per common share:         Basic       \$ (0.07)       \$ (0.03)       \$ 0.17         Diluted       \$ (0.07)       \$ (0.03)       \$ 0.16	Net (loss) income	(1,505)	742	7,185
Net income (loss) attributable to AXT, Inc       \$ (1,898)       \$ (689)       \$ 5,289         Net income (loss) attributable to AXT, Inc. per common share:         Basic       \$ (0.07)       \$ (0.03)       \$ 0.17         Diluted       \$ (0.07)       \$ (0.03)       \$ 0.16				
Net income (loss) attributable to AXT, Inc. per common share:         Basic       \$ (0.07) \$ (0.03) \$ 0.17         Diluted       \$ (0.07) \$ (0.03) \$ 0.16	Less: Net income attributable to noncontrolling interest	393	1,431	1,896
Basic       \$ (0.07) \$ (0.03) \$ 0.17         Diluted       \$ (0.07) \$ (0.03) \$ 0.16	Net income (loss) attributable to AXT, Inc	\$ (1,898)	\$ (689)	\$ 5,289
Diluted \$ (0.07) \$ (0.03) \$ 0.16	Net income (loss) attributable to AXT, Inc. per common share:			
	Basic	\$ (0.07)	\$ (0.03)	\$ 0.17
Wild I C I I C I	Diluted	\$ (0.07)	\$ (0.03)	\$ 0.16
weighted average number of common shares outstanding:	Weighted average number of common shares outstanding:			
Basic 30,500 30,400 30,035	Basic	30,500	30,400	30,035
Diluted 30,500 30,400 31,348	Diluted	30,500	30,400	31,348

# AXT, INC.

# CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

	Prefe Sto		Com	mon Stock Additional Paid In	Accumulated	Other Comprehensive	AXT, Inc.	Noncontrolling	Total stockholders'	Comprehensive
	Shares	\$	Shares	\$ Capital	Deficit	Income/(loss)	equity	interests	equity	Income/(loss)
Balance as of						(In thousand	ls)			
December 31,										
2006 Common stock	883	\$3,532	29,011	\$29 \$ 180,936	\$ (103,832)	\$ 535	\$ 81,200	\$ 2,429	\$ 83,629	
options										
exercised			461	902			902		902	
Stock-based compensation				498			498		498	
ssuance of										
common stock, net of stock										
issuance costs										
of \$60			863	1 3,613			3,614		3,614	
ssuance of common stock										
in the form of										
restricted stock			23							
Comprehensive income:										
let income					5,289		5,289	1,896	7,185	5,289
Dividend declared								(589)	(589)	)
Change in								(367)	(30)	
unrealized										
(loss) gain on marketable										
securities						(3)	(3)		(3)	) (3
Currency translation										
adjustment						1,750	1,750	0	1,750	1,750
Balance as of	_									
December 31,	005	2.525	20.255	20 105.015	(00.535	2.207	02.25	2.55	06.000	6 7.53
2007	883	3,532	30,358	30 185,949	(98,543)	2,282	93,250	3,736	96,986	\$ 7,036
Common stock options										
exercised			92	171			171		171	
tock-based compensation				634			634		634	
ssuance of				0.34			034		034	
common stock in the form of										
restricted stock			63							
Comprehensive										
loss: let loss					(689)		(689)	1,431	742	(689
Dividend					(009)		(009)	1,731	742	(009
declared								(1,955)	(1,955	)
hange in unrealized										
(loss) gain on										
marketable securities						(1,533)	(1,533)		(1,533	(1,533
Currency						(1,333)	(1,333)		(1,333	, (1,333
translation						1.05	1.05		1.000	1,000
adjustment						1,831	1,831	0	1,831	1,831
Balance as of December 31,										
2008	883	3,532	30,513	30 186,754	(99,232)	2,580	93,664	3,212	96,876	\$ (391
Common stock										
options			246	351			351		351	
exercised tock-based			240	331			331		331	
compensation				766			766		766	
ssuance of common stock										
in the form of										
restricted stock comprehensive			121							
loss:										
let loss					(1,898)		(1,898)	393	(1,505	) \$ (1,898
Dividend declared								(957)	(957)	)
hange in								(221)	(231)	
unrealized										
(loss) gain on marketable										
securities						1,750	1,750		1,750	1,750
Currency translation										
adjustment						(30)	(30)	0	(30)	) (30
alance as of	_									
December 31,	005	62.525	20.000	e20 e 107 07 :	6 (101 155	6 120"	6 01.00-	0 265	6 07.2	e
2009	883	\$5,532	30,880	\$30 \$ 187,871	\$ (101,130)	\$ 4,300	\$ 94,603	\$ 2,648	\$ 97,251	\$ (178

# AXT, INC.

# CONSOLIDATED STATEMENTS OF CASH FLOWS

Table   Tabl		Years I	Ended Decem	ber 31,
Cash flows from operating activities:         \$ (1,505)         \$ 742         \$ 7,18           Adjustments to reconcile net income (loss) to cash provided by (used in) operations:         3,058         2,194         1,47           Depreciation         3,058         2,194         1,47           Amortization (accretion) of marketable securities premium/discount         (12)         (9)         (5           Stock-based compensation         766         634         499           Impairment (recovery of impairment) on assets held for sale         —         83         (48           Realized loss (gain) on sale of investments         164         (320)         (1,021           Restructuring charge         507         —         —           (Gain) loss on disposal of property, plant and equipment         (237)         8         (10           Changes in assets and liabilities:         3,880         805         (2,35           Inventories         7,352         (10,047)         (4,265           Prepaid expenses         717         544         59           Other assets         (769)         135         (87           Accounts payable         (1,079)         2,162         46           Accued liabilities         (52)         4         892 <th></th> <th></th> <th></th> <th></th>				
Net income (loss)         \$ (1,505)         \$ 7.42         \$ 7,18           Adjustments to reconcile net income (loss) to cash provided by (used in) operations:         3,058         2,194         1,47           Depreciation         3,058         2,194         1,47           Amortization (accretion) of marketable securities premium/discount         6,634         498           Impairment (recovery of impairment) on assets held for sale         8         3,648           Realized loss (gain) on sale of investments         164         326         (1,022)           Restructuring charge         507         —         —           (Gain) loss on disposal of property, plant and equipment         (237)         8         (1           Changes in assets and liabilities:         3,880         805         (2,35           Inventories         7,352         (10,047)         (4,268           Prepaid expenses         717         544         59           Other assets         (769)         135         (87           Accounts receivable, net         (3,880)         805         (2,35           Inventories         7,352         (10,047)         (4,268           Accounts receivable, net         (3,880)         805         (2,35           Inventories	Coch flows from operating activities	(	In thousands)	
Adjustments to reconcile net income (loss) to cash provided by (used in) operations:  Depreciation 3,058 2,194 1,47. Amoritzation (accretion) of marketable securities premium/discount (12 09 65. Stock-based compensation 766 634 490. Impairment (recovery of impairment) on assets held for sale — 83 (48. Realized loss (gain) on sale of investments 164 (326) (1,02). Restructuring charge 507 — (Gain) loss on disposal of property, plant and equipment (237) 8 (10-22). Changes in assets and liabilities:  Accounts receivable, net (3,880) 805 (2,35). Inventories 7,352 (10,047) (4,266). Prepaid expenses 717 544 59. Other assets (769) (135) (87. Accounts payable (1,079) 2,162 46. Accrued liabilities (529) 4 890. Other assets (769) (135) (87. Accounts payable (1,079) 2,162 46. Accrued liabilities (27) (109) (300. Net cash provided by (used in) operating activities (27) (109) (300. Net cash provided by (used in) operating activities 4,665 (3,762) 1900. Cash flows from investing activities (3,012) (22,624) (36,104. Proceeds from disposal of property, plant and equipment (1,963) (6,788) (3,704. Proceeds from sale of marketable securities (3,012) (22,624) (36,104. Proceeds from sale of marketable securities (3,012) (22,624) (36,104. Net cash provided by (used in) investing activities 2,365 (3,832) (3,51. Cash flows from sale of assets held for sale 5,057 (5,057) (5,057		¢ (1.505)	¢ 740	¢ 7.105
Depreciations		\$ (1,505)	\$ 742	\$ /,185
Depreciation				
Amortization (accretion) of marketable securities premium/discount   12   69   65		3.058	2 194	1 473
Stock-based compensation         766         634         498           Impairment (recovery of impairment) on assets held for sale         —         83         (48           Realized loss (gain) on sale of investments         164         (326)         (1,021           Restructuring charge         507         —         —           (Gain) loss on disposal of property, plant and equipment         (237)         8         (10           Changes in assets and liabilities:         —         7,352         (10,047)         (4,266           Prepaid expenses         711         544         59         6         7,352         (10,047)         (4,266           Prepaid expenses         717         544         59         6         7         7         544         59         6         7         7         54         426         6         7         7         54         26         6         7         7         54         26         6         7         4         26         6         7         7         54         4         26         6         7         4         26         6         7         4         26         6         7         4         89         1         6         6 <td>· · · · · ·</td> <td></td> <td></td> <td>(52)</td>	· · · · · ·			(52)
Impairment (recovery of impairment) on assets held for sale   —   8.3   (48)     Realized loss (gain) on sale of investments   164   (326)   (1,026)     Restructuring charge   507   —   —     (Gain) loss on disposal of property, plant and equipment   (237)   8   (10     Changes in assets and liabilities:                   Accounts receivable, net   (3,880)   805   (2,35     Inventories   7,352   (10,047)   (4,266     Prepaid expenses   717   544   59     Other assets   (769)   (135)   (87     Accounts payable   (1,079)   2,162   46     Accrued liabilities   (529)   4   895     Income taxes   139   (312)   181     Other long-term liabilities   (27)   (109)   (300     Net cash provided by (used in) operating activities   4,665   (3,762)   1,900     Cash flows from investing activities   (1,963)   (6,788)   (3,700     Proceeds from disposal of property, plant and equipment   (1,963)   (6,788)   (3,700     Proceeds from alse of marketable securities   (3,012)   (22,624)   (36,100     Proceeds from sale of marketable securities   (3,012)   (22,624)   (36,100     Proceeds from sale of marketable securities   (3,012)   (22,624)   (36,100     Proceeds from sale of marketable securities   (3,013)   (3,687)   (35,788     Proceeds from financing activities   (3,013)   (3,687)   (35,788     Proceeds from financing activities   (3,013)   (3,687)   (35,788     Proceeds from lisuance of common stock   (3,013)   (3,687)   (3,518     Dividends paid   (957)   (1,955)   (588     Payment on line of credit   (3,013)   (3,670)   (590     Ret cash provided by (used in) financing activities   (3,092)   (5,477)   (3,333     Effect of exchange rate changes   (3,088)   (4,814)   (2,266     Cash and cash equivalents at the beginning of the year   (13,566)   (18,380)   (16,11)	•	` ′	` ′	498
Realized loss (gain) on sale of investments         164         (326)         (1,026)           Restructuring charge         507         —         —           (Gain) loss on disposal of property, plant and equipment         (237)         8         (10           Changes in assets and liabilities:         —         —         (3,880)         805         (2,35           Inventories         7,352         (10,047)         (4,266)           Prepaid expenses         717         544         59           Other assets         (769)         (135)         (87           Accounts payable         (1,079)         2,162         46           Accrued liabilities         (529)         4         89           Income taxes         139         (312)         18           Other long-term liabilities         (27)         (109)         (306           Net cash provided by (used in) operating activities         4,665         (3,762)         19,00           Cash flows from investing activities         (27)         (109)         (306           Purchases of property, plant and equipment         (1,963)         (6,788)         (3,700           Proceeds from disposal of property, plant and equipment         (3,012)         (22,624)         (36,10)	· · · · · · · · · · · · · · · · · · ·	_	83	(481
Restructuring charge         507         —         —           (Gain) loss on disposal of property, plant and equipment         (237)         8         (10           Changes in assets and liabilities:         3,880         805         (2,35           Inventories         7,352         (10,047)         (4,266)           Prepaid expenses         717         544         59           Other assets         (769)         (135)         (87           Accounts payable         (1,079)         2,162         46           Accrued liabilities         (529)         4         893           Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (30           Net cash provided by (used in) operating activities         4,665         (3,762)         1,90           Cash flows from investing activities:         8         (27)         (109)         (30           Cash flows from investing activities         4,665         (3,762)         1,90           Cash flows from investing activities         4         (65         (3,702)         1,90           Cash flows from investing activities         3,013         3,687         4         5         6,6		164	(326)	(1,028
(Gain) loss on disposal of property, plant and equipment         (237)         8         (10           Changes in assets and liabilities:         3,880         805         (2,35           Inventories         7,352         (10,047)         (4,266           Prepaid expenses         717         544         59           Other assets         (769)         (135)         (87           Accounts payable         (1,079)         2,162         46           Accoult liabilities         (529)         4         89           Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (309           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities:         (27)         (109)         (309           Purchases of property, plant and equipment         (1,963)         (6,788)         (3,700           Proceeds from disposal of property, plant and equipment         (1,963)         (6,788)         (3,700           Proceeds from sale of marketable securities         3,897         24,495         35,783           Proceeds from sale of assets held for sale         2,505         3,832         (3,51 </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td>507</td> <td></td> <td>_</td>	· · · · · · · · · · · · · · · · · · ·	507		_
Changes in assets and liabilities:         Accounts receivable, net         (3,880)         805         (2,35)           Inventories         7,352         (10,047)         (4,265)           Prepaid expenses         717         544         59           Other assets         (769)         (135)         (87           Accounts payable         (1,079)         2,162         46           Accrued liabilities         (529)         4         893           Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (300           Net cash provided by (used in) operating activities         4,665         (3,762)         1,900           Cash flows from investing activities         (1,963)         (6,788)         (3,700           Purchases of property, plant and equipment         (1,963)         (6,788)         (3,700           Proceeds from disposal of property, plant and equipment         430         5         66           Purchases of marketable securities         3,012         (22,624)         (36,10)           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450		(237)	8	(16
Accounts receivable, net         (3,880)         805         (2,35)           Inventories         7,352         (10,047)         (4,268)           Prepaid expenses         717         544         59           Other assets         (769)         (135)         (87-           Accounts payable         (1,079)         2,162         46           Accrued liabilities         (529)         4         89           Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (309           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities         4,665         (3,762)         1,909           Cash flows from investing activities         4,665         (3,762)         1,909           Proceeds from disposal of property, plant and equipment         4,965         (3,702)         1,909           Proceeds from sale of marketable securities         (3,912)         (22,624)         (36,102)           Proceeds from sale of assets held for sale         5,057         60           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in)				
Inventories		(3,880)	805	(2,351
Other assets         (769)         (135)         (87-Accounts payable           Accounts payable         (1,079)         2,162         46           Accrued liabilities         (529)         4         893           Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (309           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities         1,963         (6,788)         (3,702)           Purchases of property, plant and equipment         430         5         67           Purchases of marketable securities         (3,012)         (22,624)         (36,102)           Proceeds from disposal of property, plant and equipment         430         5         67           Purchases of marketable securities         3,012         (22,624)         (36,102)           Proceeds from sale of marketable securities         3,897         24,495         35,785           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         351 <td< td=""><td>Inventories</td><td></td><td>(10,047)</td><td>(4,269</td></td<>	Inventories		(10,047)	(4,269
Accounts payable         (1,079)         2,162         46           Accrued liabilities         (529)         4         89           Income taxes         139         (312)         18           Other long-term liabilities         (27)         (109)         (309           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities:         (1,963)         (6,788)         (3,700)           Purchases of property, plant and equipment         430         5         6           Purchases of marketable securities         (3,012)         (22,624)         (36,10)           Purchases of marketable securities         3,897         24,495         35,78           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,51)           Cash flows from financing activities:         351         171         4,510           Proceeds from issuance of common stock         351         171         4,510           Proceeds from line of credit         —         3,013         —	Prepaid expenses	717	544	591
Accrued liabilities         (529)         4         893           Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (300           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities:	Other assets	(769)	(135)	(874
Income taxes         139         (312)         188           Other long-term liabilities         (27)         (109)         (309           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities:         The company of the	Accounts payable	(1,079)	2,162	461
Other long-term liabilities         (27)         (109)         (309)           Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities:	Accrued liabilities	(529)	4	893
Net cash provided by (used in) operating activities         4,665         (3,762)         1,909           Cash flows from investing activities:         Purchases of property, plant and equipment         (1,963)         (6,788)         (3,700)           Proceeds from disposal of property, plant and equipment         430         5         66           Purchases of marketable securities         (3,012)         (22,624)         (36,102)           Proceeds from sale of marketable securities         3,897         24,495         35,783           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,51)           Cash flows from financing activities:         -         3,013         3,687         450           Proceeds from issuance of common stock         351         171         4,51           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (589)           Payment on line of credit         (3,013)         —           Long-term debt payments         (73)         (6,706)         (592) <td>Income taxes</td> <td>139</td> <td>(312)</td> <td>188</td>	Income taxes	139	(312)	188
Cash flows from investing activities:           Purchases of property, plant and equipment         (1,963)         (6,788)         (3,700)           Proceeds from disposal of property, plant and equipment         430         5         6           Purchases of marketable securities         (3,012)         (22,624)         (36,10)           Proceeds from sale of marketable securities         3,897         24,495         35,785           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,51)           Cash flows from financing activities:         2         351         171         4,510           Proceeds from issuance of common stock         351         171         4,510           Proceeds from line of credit         —         3,013         —           Proceeds from line of credit         (3,013)         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,332           Effect of exchange rate changes         30         593	Other long-term liabilities	(27)	(109)	(309
Purchases of property, plant and equipment         (1,963)         (6,788)         (3,700)           Proceeds from disposal of property, plant and equipment         430         5         62           Purchases of marketable securities         (3,012)         (22,624)         (36,10)           Proceeds from sale of marketable securities         3,897         24,495         35,785           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,51-1)           Cash flows from financing activities         351         171         4,510           Proceeds from issuance of common stock         351         171         4,510           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (580)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,333           Effect of exchange rate changes	Net cash provided by (used in) operating activities	4,665	(3,762)	1,909
Proceeds from disposal of property, plant and equipment         430         5         66           Purchases of marketable securities         (3,012)         (22,624)         (36,102)           Proceeds from sale of marketable securities         3,897         24,495         35,783           Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,51-           Cash flows from financing activities:         —         3,013         —           Proceeds from issuance of common stock         351         171         4,51-           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (588)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,335           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents	Cash flows from investing activities:			
Purchases of marketable securities       (3,012)       (22,624)       (36,102)         Proceeds from sale of marketable securities       3,897       24,495       35,783         Proceeds from sale of assets held for sale       — 5,057       —         Decrease in restricted deposits       3,013       3,687       450         Net cash provided by (used in) investing activities       2,365       3,832       (3,514)         Cash flows from financing activities:       Proceeds from issuance of common stock       351       171       4,514         Proceeds from line of credit       — 3,013       —         Dividends paid       (957)       (1,955)       (589)         Payment on line of credit       (3,013)       —       —         Long-term debt payments       (73)       (6,706)       (592)         Net cash provided by (used in) financing activities       (3,692)       (5,477)       3,333         Effect of exchange rate changes       30       593       534         Net increase (decrease) in cash and cash equivalents       3,368       (4,814)       2,264         Cash and cash equivalents at the beginning of the year       13,566       18,380       16,11	Purchases of property, plant and equipment	(1,963)	(6,788)	(3,706)
Proceeds from sale of marketable securities         3,897         24,495         35,785           Proceeds from sale of assets held for sale         — 5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,514           Cash flows from financing activities:         —         351         171         4,510           Proceeds from issuance of common stock         351         171         4,510           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (589           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,335           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Proceeds from disposal of property, plant and equipment	430	5	62
Proceeds from sale of assets held for sale         —         5,057         —           Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,514)           Cash flows from financing activities:           Proceeds from issuance of common stock         351         171         4,514           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (589)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,333           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Purchases of marketable securities	(3,012)	(22,624)	(36,105
Decrease in restricted deposits         3,013         3,687         450           Net cash provided by (used in) investing activities         2,365         3,832         (3,514)           Cash flows from financing activities:           Proceeds from issuance of common stock         351         171         4,510           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (589)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,333           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Proceeds from sale of marketable securities	3,897	24,495	35,785
Net cash provided by (used in) investing activities         2,365         3,832         (3,514)           Cash flows from financing activities:         Proceeds from issuance of common stock         351         171         4,516           Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (589)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,335           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Proceeds from sale of assets held for sale	_	5,057	_
Cash flows from financing activities:           Proceeds from issuance of common stock         351         171         4,510           Proceeds from line of credit         — 3,013         —           Dividends paid         (957)         (1,955)         (589           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,335           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Decrease in restricted deposits	3,013	3,687	450
Proceeds from issuance of common stock         351         171         4,51           Proceeds from line of credit         — 3,013         —           Dividends paid         (957)         (1,955)         (589)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,335           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Net cash provided by (used in) investing activities	2,365	3,832	(3,514
Proceeds from line of credit         —         3,013         —           Dividends paid         (957)         (1,955)         (589)           Payment on line of credit         (3,013)         —         —           Long-term debt payments         (73)         (6,706)         (592)           Net cash provided by (used in) financing activities         (3,692)         (5,477)         3,335           Effect of exchange rate changes         30         593         534           Net increase (decrease) in cash and cash equivalents         3,368         (4,814)         2,264           Cash and cash equivalents at the beginning of the year         13,566         18,380         16,11	Cash flows from financing activities:			
Dividends paid       (957)       (1,955)       (589)         Payment on line of credit       (3,013)       —       —         Long-term debt payments       (73)       (6,706)       (592)         Net cash provided by (used in) financing activities       (3,692)       (5,477)       3,335         Effect of exchange rate changes       30       593       534         Net increase (decrease) in cash and cash equivalents       3,368       (4,814)       2,264         Cash and cash equivalents at the beginning of the year       13,566       18,380       16,11	Proceeds from issuance of common stock	351	171	4,516
Payment on line of credit  Long-term debt payments  (73) (6,706) (592)  Net cash provided by (used in) financing activities  (3,692) (5,477) 3,335  Effect of exchange rate changes  30 593 534  Net increase (decrease) in cash and cash equivalents  Cash and cash equivalents at the beginning of the year  13,566 18,380 16,11	Proceeds from line of credit	_	3,013	_
Long-term debt payments       (73)       (6,706)       (592)         Net cash provided by (used in) financing activities       (3,692)       (5,477)       3,335         Effect of exchange rate changes       30       593       534         Net increase (decrease) in cash and cash equivalents       3,368       (4,814)       2,264         Cash and cash equivalents at the beginning of the year       13,566       18,380       16,11	Dividends paid	(957)	(1,955)	(589
Net cash provided by (used in) financing activities (3,692) (5,477) 3,335  Effect of exchange rate changes 30 593 534  Net increase (decrease) in cash and cash equivalents 3,368 (4,814) 2,264  Cash and cash equivalents at the beginning of the year 13,566 18,380 16,11	Payment on line of credit	(3,013)	_	_
Effect of exchange rate changes 30 593 534  Net increase (decrease) in cash and cash equivalents 3,368 (4,814) 2,264  Cash and cash equivalents at the beginning of the year 13,566 18,380 16,11	Long-term debt payments	(73)	(6,706)	(592
Net increase (decrease) in cash and cash equivalents  Cash and cash equivalents at the beginning of the year  3,368 (4,814) 2,264  13,566 18,380 16,11	Net cash provided by (used in) financing activities	(3,692)	(5,477)	3,335
Cash and cash equivalents at the beginning of the year 13,566 18,380 16,11	Effect of exchange rate changes	30	593	534
Cash and cash equivalents at the beginning of the year 13,566 18,380 16,11	Net increase (decrease) in cash and cash equivalents	3,368	(4,814)	2,264
	Cash and cash equivalents at the beginning of the year			16,116
	Cash and cash equivalents at the end of the year	\$ 16,934	\$ 13,566	\$ 18,380

# **Supplemental disclosures:**

Interest paid	\$	72	\$ 227	\$	382
Income taxes paid	\$	887	\$ 1,492	\$	483
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Supplemental non-cash investing and financing activities:					
Property, plant and equipment acquired through the issuance of debt	\$		\$ 575	\$	

## AXT, INC.

#### NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

#### Note 1. The Company and Summary of Significant Accounting Policies

#### The Company

AXT, Inc. ("AXT", "we," "us," and "our" refer to AXT, Inc. and all of its subsidiaries) designs, develops, manufactures and distributes high-performance compound semiconductor substrates. Our substrate products are used primarily in wireless communications, lighting display applications, and fiber optic communications. We believe our vertical gradient freeze, or VGF, technique for manufacturing semiconductor substrates provides significant benefits over other methods and enabled us to become a leading manufacturer of such substrates. We pioneered the commercial use of VGF technology to manufacture gallium arsenide (GaAs) substrates and subsequently used VGF technology to manufacture substrates from indium phosphide (InP), and germanium (Ge). We also manufacture and sell raw materials related to our substrate business through five joint ventures located in China. These joint ventures produce products including 99.99% pure gallium (4N Ga), high purity gallium, arsenic, and germanium, germanium dioxide, paralytic boron nitride (pBN) crucibles, and boron oxide. AXT's ownership interest in these entities ranges from 25 percent to 83 percent. We consolidate the three ventures in which we own a majority or controlling share and employ equity accounting for the two joint ventures in which we have a 25 percent interest. We purchase the materials produced by these ventures for our use and sell other portions of their production to third parties.

#### Use of Estimates

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

#### Principles of Consolidation

The consolidated financial statements include the accounts of AXT and our majority-owned subsidiaries. All significant inter-company accounts and transactions have been eliminated. Investments in business entities in which we do not have control, but have the ability to exercise significant influence over operating and financial policies (generally 20-50% ownership), are accounted for by the equity method.

## Fair Value of Financial Instruments

The carrying amounts of certain of our financial instruments including cash and cash equivalents, accounts receivable, short-term investments, accounts payable and accrued liabilities approximate fair value due to their short maturities. The carrying amounts of short-term and long-term debt approximate fair value due to the market interest rates that these debts bear and interest rates currently available to us.

#### Reclassifications

Certain reclassifications have been made to the prior years' consolidated financial statements to conform to current year presentation. These reclassifications had no impact on previously reported total assets, stockholders' equity or net income (loss).

#### Foreign Currency Translation

The functional currencies of our Chinese subsidiaries are the local currencies. Transaction gains and losses resulting from transactions denominated in currencies other than the U.S. dollar or in the functional currencies of our subsidiaries are included in other income, net for the periods presented.

The assets and liabilities of the subsidiaries are translated at the rates of exchange on the balance sheet date. Revenue and expense items are translated at the average rate of exchange for the period. Gains and losses from foreign currency translation are included in other comprehensive income (loss) in stockholders' equity.

#### Revenue Recognition

We recognize revenue upon the shipment of our products to customers when:

- we have received a signed purchase order placed by our customers,
- the price is fixed or determinable,
- title and risk of ownership has transferred to our customers upon shipment from our dock, receipt at customer's dock, or removal from consignment inventory at customer's location,
- collection of resulting receivables is probable, and
- product returns are reasonably estimable.

We do not provide training, installation or commissioning services. Our terms and conditions of sale do not require customer acceptance. We assess the probability of collection based on a number of factors including past history with the customer and credit worthiness. We provide for future returns based on historical experience, current economic trends and changes in customer demand at the time revenue is recognized. Additionally, we do not provide discounts or other incentives to customers. We present our revenue net of any taxes assessed by any governmental authority.

#### Accounting for Sales Taxes in Net Revenues

We report sales taxes collected on sales of our products as a component of net revenues and as accrued liabilities on our consolidated balance sheets. The amount is immaterial for fiscal years 2009, 2008 and 2007.

### Concentration of Credit Risk

Our business is very dependent on the semiconductor industry, which is highly cyclical and has historically experienced downturns as a result of economic changes, overcapacity, and technological advancements. Significant technological changes in the industry or customer requirements, or the emergence of competitive products with new capabilities or technologies, could adversely affect operating results. In addition, a significant portion of our revenues and net income (loss) is derived from international sales. Fluctuations of the United States dollar against foreign currencies and changes in local regulatory or economic conditions, particularly in an emerging market such as China, could adversely affect operating results.

We depend on a single or limited number of suppliers for certain critical materials used in the production of our substrates, such as quartz tubing, and polishing solutions. We generally purchase these materials through standard purchase orders and not pursuant to long-term supply contracts.

Financial instruments that potentially subject us to concentration of credit risk consist primarily of cash equivalents, short-term investments, and trade accounts receivable. We invest primarily in money market accounts, commercial paper instruments, and investment grade securities with high quality

financial institutions. The composition and maturities are regularly monitored by management. Such deposits are in excess of the amount of the insurance provided by the federal government on such deposits. We are exposed to credit risks in the event of default by the issuers to the extent of the amount recorded on the consolidated balance sheets. As of December 31, 2009, we have approximately \$18.3 million in principal protected notes with Citicorp Smith Barney, which had a fair value of approximately \$18.5 million.

We perform ongoing credit evaluations of our customers' financial condition, and limit the amount of credit extended when deemed necessary, but generally do not require collateral. The credit risk in our accounts receivable is substantially mitigated by our credit evaluation process, reasonably short collection terms and the geographical dispersion of sales transactions. One customer represented greater than 10% of revenue for the year ended December 31, 2009, totaling 15%, one customer represented greater than 10% of revenue for the year ended December 31, 2008, totaling 19%, and one customer represented greater than 10% of revenue, totaling 12%, for the year ended December 31, 2007. Our top five customers represented 41% of revenue for the year ended December 31, 2008, and 40% of revenue for the year ended December 31, 2007. We expect that sales to a small number of customers will continue to comprise a significant portion of our revenue in the future. One customer accounted for 10% or more of our trade accounts receivable balance as of December 31, 2009 at 27%. Four customers each accounted for 10% or more of our trade accounts receivable balance as of December 31, 2008, and 10%, respectively.

### Cash Equivalents and Short-Term Investments

We classify our investments in debt and equity securities as available-for-sale securities as prescribed by ASC topic 320, *Debt and Equity Securities* ("ASC 320"). We consider investments in highly liquid instruments purchased with an original maturity of three months or less to be cash equivalents. Our short-term investments are reported at fair value as of the respective balance sheet dates with unrealized gains and losses included in accumulated other comprehensive income (loss) within stockholders' equity on the consolidated balance sheets. The amortized cost of securities is adjusted for amortization of premiums and accretion of discounts to maturity. Such amortization is included in other income, net in the consolidated statements of operations. Realized gains and losses and declines in value judged to be other than temporary on available-for-sale securities are also included in other income, net in the consolidated statements of operations. The cost of securities sold is based upon the specific identification method.

All available-for-sale securities with a quoted market value below cost (or adjusted cost) are reviewed in order to determine whether the decline is other-than-temporary. Factors considered in determining whether a loss is temporary include the magnitude of the decline in market value, the length of time the market value has been below cost (or adjusted cost), credit quality, and our ability and intent to hold the securities for a period of time sufficient to allow for any anticipated recovery in market value.

## Accounts Receivable and Allowance for Doubtful Accounts

Accounts receivable are recorded at the invoiced amount and are not interest bearing. We maintain an allowance for doubtful accounts to reserve for potentially uncollectible trade receivables. We also review our trade receivables by aging category to identify specific customers with known disputes or collectability issues. We exercise judgment when determining the adequacy of these reserves as we evaluate historical bad debt trends, general economic conditions in the United States and internationally, and changes in customer financial conditions. Uncollectible receivables are recorded as bad debt expense when all efforts to collect have been exhausted and recoveries are recognized when they are received.

As of December 31, 2007, our accounts receivable balance was \$12.1 million, which was net of an allowance for doubtful accounts of \$0.4 million. As of December 31, 2008, our accounts receivable balance was \$11.5 million, which was net of an allowance for doubtful accounts of \$0.6 million. The increase of \$0.2 million in allowance for doubtful accounts from prior year was mainly for one slow-paying customer in the United States in the amount of \$0.4 million, offset by subsequent collections from an Asian customer in the amount of \$0.2 million. As of December 31, 2009, our accounts receivable balance was \$15.4 million, which was net of an allowance for doubtful accounts of \$0.2 million. During 2009, we decreased this allowance by \$0.4 million primarily for improved collections from slow-paying customers in Asia, resulting in the allowance for doubtful accounts of \$0.2 million as of December 31, 2009. No amounts have been written off. If actual uncollectible accounts differ substantially from our estimates, revisions to the estimated allowance for doubtful accounts would be required, which could have a material impact on our financial results for the period.

The allowance for sales returns is also deducted from gross accounts receivable. Our allowance for sales returns was \$3,000 as of December 31, 2007. During 2008, we charged an additional \$130,000 in sales returns resulting in the allowance for sales returns of \$133,000 as of December 31, 2008. During 2009, we utilized \$119,000 and charged an additional \$842,000 resulting in the allowance for sales returns of \$856,000 as of December 31, 2009.

#### **Inventories**

Inventories are stated at the lower of cost (approximated by standard cost) or market. Cost is determined using the weighted average cost method. Our inventory consists of raw materials as well as finished goods and work-in-process that include material, labor and manufacturing overhead costs. Provision for potentially obsolete or slow moving inventory is made based on management's analysis of inventory levels and sales forecasts.

#### Property, Plant and Equipment

Property, plant and equipment are stated at cost less accumulated depreciation computed using the straight-line method over the estimated economic lives of the assets, which vary from 3 to 27.5 years. Leasehold improvements are amortized over the shorter of the estimated useful life or the term of the lease. We generally depreciate computers and software over 3 years, office equipment, furniture and fixtures over 3 years, automobiles over 5 years, leasehold improvements over 10 years, or lease term if shorter, and buildings over 27.5 years. Repairs and maintenance costs are expensed as incurred.

### Impairment of Long-Lived Assets

We evaluate the recoverability of property, equipment and intangible assets in accordance with ASC topic 360, *Property, Plant and Equipment* ("ASC 360"). When events and circumstance indicate that long-lived assets may be impaired, management compares the carrying value of the long-lived assets to the projection of future undiscounted cash flows attributable to such assets and in the event that the carrying value exceeds the future undiscounted cash flows, we record an impairment charge against income equal to the excess of the carrying value over the asset's fair value. In the third quarter of 2006, we incurred an impairment charge of \$1.4 million to write down our U.S. property in Fremont, California, which was being decontaminated and was being prepared for sale. In the second quarter of 2007, we benefited from a recovery of impairment on this asset held for sale in connection with our adjustment of the fair value. We recorded a \$481,000 market value adjustment after we entered into an agreement with an independent third party purchaser in June 2007 to purchase the property for estimated net proceeds of \$5.1 million, after deducting estimated commission and selling expenses. In the fourth quarter of 2007, that agreement was terminated and we entered into a new sales agreement with another independent third party purchaser to purchase this property for a similar amount. The sale of the property was consummated in March 2008 and we recorded an \$83,000 impairment charge

due to the final sales price of the property. We no longer have "Assets held for sale" on the consolidated balance sheet.

#### Segment Reporting

Our business is conducted in a single operating segment. Our principal executive officer reviews a single set of financial data that encompasses our entire operations for purposes of making operating decisions and assessing financial performance. Our principal executive officer manages our Company based primarily on broad functional categories of sales, manufacturing, product development and engineering and marketing and strategy. While we obtain financial statements from all of our joint ventures in order to prepare our consolidated financial statements, we do not review them either individually or in the aggregate when making operating decisions for our business. We manage the Company on a consolidated basis with a review of revenue by product. We discuss revenue and capacity for both AXT and our joint ventures collectively, when determining capacity constraints and need for raw materials in our business, and consider their capacity when determining our strategic and product marketing and advertising strategies. While we consolidate three of the joint ventures we do not allocate resources to any of them, nor allocate any portion of overhead, interest and other income, interest expense or taxes to them. We therefore have determined that our joint venture operations do not constitute an operating segment.

#### Investments

We invest in equity instruments of privately-held companies for business and strategic purposes. These investments are classified as other assets and are accounted for under the cost method as we do not have the ability to exercise significant influence over their operations. We monitor our investments for impairment and record reductions in carrying value when events or changes in circumstances indicate that the carrying value may not be recoverable. Determination of impairment is highly subjective and is based on a number of factors, including an assessment of the strength of investee's management, the length of time and extent to which the fair value has been less than our cost basis, the financial condition and near-term prospects of the investee, fundamental changes to the business prospects of the investee, share prices of subsequent offerings, and our intent and ability to hold the investment for a period of time sufficient to allow for any anticipated recovery in our carrying value.

## Stock-Based Compensation

We have employee stock option plans, which are described more fully in Note 10—Employee Benefit Plans. We accounter stock-based compensation in accordance with the provisions of ASC topic 718, *Stock Compensation* ("ASC 718"), which established accounting for stock-based awards exchanged for employee services. Accordingly, stock-based compensation cost is measured at each grant date, based on the fair value of the award, and is recognized as expense over the employee's requisite service period of the award. All of the Company's stock compensation is accounted for as an equity instrument. The provisions of ASC 718 apply to all awards granted or modified after the date of adoption which was January 1, 2006. The unrecognized expense of awards not yet vested at the date of adoption will be recognized in net income (loss) in the periods after the date of adoption using the same Black-Scholes valuation method and assumptions determined under the original provisions of ASC 718.

We recorded \$766,000, \$634,000 and \$498,000 of stock-based compensation in our consolidated statements of operations for the years ended December 31, 2009, 2008 and 2007, respectively. We utilized the Black-Scholes valuation model for estimating the fair value of the stock compensation

granted both before and after the adoption of ASC 718. The following table summarizes compensation costs related to our stock-based compensation awards (in thousands, except per share data):

	Years Ended December 31,					31,
	2009			2008		2007
Stock-based compensation in the form of employee stock options and restricted						
stock, included in:						
Cost of revenue	\$	39	\$	53	\$	53
Selling, general and administrative		672		467		360
Research and development		55		114		85
Total stock-based compensation		766		634		498
Tax effect on stock-based compensation						
Net effect on net income	\$	766	\$	634	\$	498
			_			
Shares used in computing basic net income per share		30,500		30,400		30,035
Shares used in computing diluted net income per share		30,500		30,400		31,348
Effect on basic net income per share	\$	(0.03)	\$	(0.02)	\$	(0.02)
Effect on diluted net income per share	\$	(0.03)	\$	(0.02)	\$	(0.02)

As of December 31, 2009, the total compensation cost related to unvested stock-based awards granted to employees under our stock option plans but not yet recognized was approximately \$1.1 million, net of estimated forfeitures of \$233,000. This cost will be amortized on a straight-line basis over a weighted-average period of approximately 3.40 years and will be adjusted for subsequent changes in estimated forfeitures. As of December 31, 2008, the total compensation cost related to unvested stock-based awards granted to employees under our stock option plans but not yet recognized was approximately \$1.1 million, net of estimated forfeitures of \$139,000. This cost is being amortized on a straight-line basis over a weighted-average period of approximately 2.79 years and will be adjusted for subsequent changes in estimated forfeitures. We did not capitalize any stock-based compensation to inventory as of December 31, 2009 and 2008, as the amounts are not significant.

We estimate the fair value of stock options using a Black-Scholes valuation model, consistent with the provisions of ASC 718 and Securities and Exchange Commission Staff Accounting Bulletin No. 107. The weighted-average grant date fair value of our stock options granted to employees during 2009, 2008, and 2007 was \$0.99, \$0.77, and \$2.60 per share, respectively. The fair value of options granted was estimated at the date of grant using the following weighted-average assumptions:

	Ye	rears Ended				
	De	December 31,				
	2009	2008	2007			
Risk-free interest rate	2.04%	2.30%	3.11%			
Expected life (in years)	4.0	4.0	3.9			
Dividend yield	_	_	_			
Estimated forfeitures	7.5%	4.3%	5.7%			
Volatility	69.0%	60.5%	59.8%			

The dividend yield of zero is based on the fact that we have never paid cash dividends and have no present intention to pay cash dividends. Expected volatility is based on the combination of historical volatility of the Company's common stock and the expected future volatility over the period commensurate with the expected life of the options. The risk-free interest rates are taken from the Daily Federal Yield Curve Rates as of the grant dates as published by the Federal Reserve and

represent the yields on actively traded Treasury securities for terms equal to the expected term of the options. The expected term calculation for stock options is based on the observed historical option exercise behavior and post-vesting forfeitures of options by our employees. Assumptions related to the Employee Stock Purchase Plan are not presented as the related compensation expense amounts are insignificant. The Employee Stock Purchase Plan was suspended in February 2006.

#### Research and Development

Research and development costs consist primarily of salaries including stock compensation expense and related personnel costs, depreciation and product testing and are expensed as incurred.

### **Advertising Costs**

Advertising costs, included in selling, general and administrative, are expensed as incurred. Advertising costs for the years ended December 31, 2009, 2008, and 2007 were \$71,000, \$76,000 and \$75,000, respectively.

## Shipping and Handling costs

We include fees billed to customers and costs incurred for shipping and handling as a component of cost of sales.

#### Income Taxes

We account for deferred income taxes using the liability method, under which the expected future tax consequences of timing differences between the book and tax basis of assets and liabilities are recognized as deferred tax assets and liabilities. Valuation allowances are established when necessary to reduce net deferred tax assets when management estimates, based on available objective evidence, that it is more likely than not that the future income tax benefit represented by the net deferred tax asset will not be realized.

We adopted ASC topic 740, *Income Taxes* ("ASC 740") on January 1, 2007. ASC 740 seeks to reduce the diversity in practice associated with certain aspects of measurement and recognition in accounting for income taxes. ASC 740 prescribes a recognition threshold and measurement attribute for the financial statement recognition and measurement of a tax provision that an entity takes or expects to take in a tax return. Additionally, ASC 740 provides guidance on de-recognition, classification, interest and penalties, accounting in interim periods, disclosures, and transition. Under ASC 740, an entity may only recognize or continue to recognize tax positions that meet a "more likely than not" threshold. In accordance with our accounting policy, we recognize accrued interests and penalties related to unrecognized tax benefits as a component of income tax expense. The impact on adoption of ASC 740 is more fully described in Note 12.

### Comprehensive Income (Loss)

We report comprehensive income or loss in accordance with the provisions of ASC topic 220 *Comprehensive Income ("ASC 220")* which establishes standards for reporting comprehensive income or loss and its components in the financial statements. The components of other comprehensive income (loss) consist of unrealized gains and losses on marketable securities and foreign currency translation adjustments. Comprehensive income (loss) is presented in the accompanying consolidated statements of

stockholders' equity. The balance of accumulated other comprehensive income is as follows (in thousands):

	As of December 31,	
	2009 2008	
Accumulated other comprehensive income:		
Unrealized gain (loss) on investments, net	\$ 173 \$ (1,57)	9)
Cumulative translation adjustment	4,127 4,15	9
	\$ 4,300 \$ 2,580	0

	As of December 31,					
	_	2009	2	2008		2007
Net (loss) income attributable to AXT, Inc.	\$	(1,898)	\$	(689)	\$	5,289
Other comprehensive income, net of tax:						
Change in foreign currency translation gain (loss), net of tax		(30)		1,831		1,750
Change in unrealized gain (loss) on available-for-sale investments,						
net of tax		1,750		(1,533)		(3)
Total other comprehensive income, net of tax		1,720		298		1,747
Comprehensive (loss) income		(178)		(391)		7,036
Less: Comprehensive income attributable to the noncontrolling						
interest		393		1,431		1,896
Comprehensive income attributable to AXT, Inc.	\$	(571)	\$	(1,822)	\$	5,140

### Net Income (Loss) Per Share

Basic net income (loss) per share is computed using the weighted average number of common shares outstanding during the periods. Diluted net income (loss) per share is computed using the weighted average number of common shares outstanding and potentially dilutive common shares outstanding during the periods. Potentially dilutive common shares consist of common shares issuable upon the exercise of stock options. Potentially dilutive common shares are excluded in net loss periods, as their effect would be anti-dilutive.

## Recent Accounting Pronouncements

In September 2006, FASB issued ASC topic 820, Fair Value Measurements and Disclosures ("ASC 820"). ASC 820 provides guidance for using fair value to measure assets and liabilities and also responds to investors' requests for expanded information about the extent to which companies measure assets and liabilities at fair value, the information used to measure fair value and the effect of fair value measurements on earnings. ASC 820 applies whenever other standards require (or permit) assets or liabilities to be measured at fair value. ASC 820 does not expand the use of fair value in any new circumstances. The Company adopted ASC 820 on January 1, 2008 for all financial assets and liabilities recognized or disclosed at fair value in its consolidated financial statements on a recurring basis (at least annually). In February 2008, the FASB amended ASC 820, providing a one year deferral for implementation of the standard for non-recurring, non-financial assets and liabilities, except for items that are recognized or disclosed at fair value in the financial statements on a recurring basis (at least annually). The Company adopted ASC 820 on January 1, 2009 for nonfinancial assets and liabilities. The Company's adoption of ASC 820 did not have a material impact on its nonfinancial assets and liabilities or on its financial position and results of operations, other than requiring additional disclosures. Refer to Note 2.

In December 2007, the FASB issued ASC topic 805, *Business Combinations* ("ASC 805"). ASC 805 establishes revised principles and requirements for the recognition and measurement of assets and liabilities in a business combination. ASC 805 requires (i) recognition of 100% of the fair value of acquired assets, including goodwill, and assumed liabilities upon obtaining control, (ii) contingent consideration to be recorded at fair value at the acquisition date, (iii) transaction costs to be expensed as incurred, (iv) pre-acquisition contingencies to be accounted for at the acquisition date at fair value and (v) costs of a plan to exit an activity or terminate or relocate employees to be accounted for as post-combination costs. The provisions of this standard will apply to any acquisitions we complete on or after December 15, 2008. The Company adopted ASC 805 on January 1, 2009. There was no impact upon adoption of on our consolidated financial statements and its effects on future periods will depend on the nature and extent of business combinations that we complete, if any, in or after fiscal 2009.

In December 2007, the FASB issued ASC topic 810, *Consolidation* ("ASC 810"). ASC 810 clarifies the classification of noncontrolling interests in consolidated statements of financial position and the accounting for and reporting of transactions between the reporting entity and holders of such noncontrolling interests. The provisions of ASC 810 were applied to all noncontrolling interests prospectively, except for the presentation and disclosure requirements, which were applied retrospectively to all periods presented and have been disclosed as such in our consolidated financial statements herein. ASC 810 became effective for fiscal years beginning on or after December 15, 2008. The Company adopted ASC 810 on January 1, 2009. Upon adoption of ASC 810, the Company has recognized noncontrolling interests as equity in the consolidated balance sheets and has reflected net income attributable to noncontrolling interests in consolidated net income.

In March 2008, the FASB issued ASC topic 815, *Derivatives and Hedging* ("ASC 815"). ASC 815 requires expanded disclosures about (i) how and why an entity uses derivative instruments, (ii) how derivative instruments and related hedged items are accounted for ASC 815 and its related interpretations, and (iii) how derivative instruments and related hedged items affect an entity's financial position, financial performance and cash flows. ASC 815 was effective for financial statements issued for fiscal years and interim periods beginning after November 15, 2008. The Company adopted ASC 815 on January 1, 2009. We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In May 2008, the FASB issued ASC topic 470, *Debt, subtopic 20, Debt with Conversion and Other Options* ("ASC 470-20"). We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In June 2008, the FASB issued ASC topic 260, *Earnings per Share* ("ASC 260"). ASC 260 was issued to clarify that unvested share-based payment awards with a right to receive nonforfeitable dividends are participating securities and to provide guidance on how to allocate earnings to participating securities and compute basic earnings per share using the two-class method. ASC 260 was effective for financial statements issued for fiscal years beginning after December 15, 2008, and interim periods within those years and requires retrospective application. The Company adopted ASC 260 on January 1, 2009 and applied it retrospectively to all periods presented. We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In April 2009, the FASB amended ASC topic 805, *Business Combinations* ("ASC 805"). ASC 805 requires that assets acquired and liabilities assumed in a business combination that arise from contingencies be recognized at fair value if fair value can be reasonably estimated. If fair value cannot be reasonably estimated, the asset or liability would generally be recognized in accordance with ASC topic 450, Contingencies ("ASC 450"). Further, the FASB removed the subsequent accounting guidance for assets and liabilities arising from contingencies from ASC topic 805, *Business Combinations*, subtopic 20, *Identifiable Assets and Liabilities and Any Noncontrolling Interest* ("ASC 805-20"). The requirements of this ASC carry forward without significant revision the guidance on contingencies of

ASC 805 which was superseded by ASC 805-20. The ASC also eliminates the requirement to disclose an estimate of the range of possible outcomes of recognized contingencies at the acquisition date. For unrecognized contingencies, the FASB requires that entities include only the disclosures required by ASC 805-20 as modified is required to be applied prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008. The adoption of ASC 805-20, as of January 1, 2009 had no impact on our consolidated financial statements and its effects on future periods will depend on the nature and extent of business combinations that we complete, if any, in or after fiscal 2009.

In April 2009, the FASB issued ASC topic 825, *Financial Instruments* ("ASC 825"). ASC 825 requires disclosures about fair value of financial instruments in interim reporting periods. Such disclosures were previously required only in annual financial statements. ASC 825 was effective for interim periods ending after June 15, 2009. The Company adopted ASC 825 in the second quarter of 2009 and has included the required disclosures in its consolidated financial statements. Refer to Note 2.

In April 2009, ASC 320, *Investments—Debt and Equity Securities* "ASC 320"). ASC 320 provides greater clarity about the credit and noncredit component of an other-than-temporary impairment event and more effectively communicates when an other-than-temporary impairment event has occurred. ASC 320 amends the other-than-temporary impairment model for debt securities. The impairment model for equity securities was not affected. Under ASC 320, an other-than-temporary impairment must be recognized through earnings if an investor has the intent to sell the debt security or if it is more likely than not that the investor will be required to sell the debt security before recovery of its amortized cost basis. This standard was effective for interim periods ending after June 15, 2009. The Company adopted ASC 825 in the second quarter of 2009. We have determined that there is no impact from adopting this statement on our consolidated financial statements.

In May 2009, the FASB issued ASC topic 855—Subsequent Event ("ASC 855"). The statement defines the period after the balance sheet date during which management shall evaluate transactions for potential recognition or disclosure in the financial statements, the circumstances in which an entity shall recognize a subsequent event in its financial statements and the disclosures an entity shall make about subsequent events. This topic was effective for interim or annual periods ending after June 15, 2009. The Company adopted the topic as required and its adoption did not impact the consolidated financial statements other than the required additional disclosures.

In June 2009, the FASB issued ASC topic 810—Amendments of FASB Interpretation No. 46(R) ("ASC 810"). The emphasis of this statement is to improve financial reporting by enterprises involved with variable interest entities. The statement also addresses the effects on certain provisions of FASB Interpretation No. 46 (revised December 2003), "Consolidation of Variable Interest Entities," as a result of the elimination of the qualifying special-purpose entity concept in SFAS No. 166 and the application of certain key provisions of FASB Interpretation No. 46(R). This topic is effective as of the beginning of the first annual reporting period after November 15, 2009 for interim periods within that first annual reporting period, and for interim and annual reporting periods thereafter. The adoption of ASC 810 is not expected to have a material impact on the Company's consolidated financial statements.

In June 2009, the FASB approved ASC topic 105, *Generally Accepted Accounting Principles* ("ASC 105", "Codification"), which establishes the Codification as the single source of authoritative nongovernmental U.S. GAAP. The Codification does not change current U.S. GAAP, but is intended to simplify user access to all authoritative U.S. GAAP by providing all the authoritative literature related to a particular topic in one place. All existing accounting standard documents will be superseded and all other accounting literature not included in the Codification will be considered nonauthoritative. The Codification combines all authoritative standards into a comprehensive, topically organized database. Since the Codification will completely replace existing standards, all future references to authoritative accounting literature references in the Company's financial statements will be in accordance with the

Codification. The Codification is effective for interim and annual periods ending after September 15, 2009. The Company adopted ASC 105 in the third quarter of 2009. We have determined that there is no impact from adopting the Codification on our consolidated financial statements.

In various areas, including revenue recognition, stock option accounting, accounting standards and practices continue to evolve. Additionally, the SEC and the FASB's Emerging Issues Task Force continue to address revenues, stock option accounting related accounting issues. We believe that we are in compliance with all of the rules and related guidance as they currently exist. However, any changes to accounting principles generally accepted in the United States of America in these areas could impact the future accounting of our operations.

December 21 2008

Note 2. Cash, Cash Equivalents and Investments

Our cash, cash equivalents and investments are classified as follows (in thousands):

			December	31, 2009						
			Gross	Gross				Gross	Gross	
	Ar	nortized	Unrealized	Unrealized	Fair	An	ortized	Unrealized	Unrealized	Fair
		Cost	Gain	(Loss)	Value		Cost	Gain	(Loss)	Value
Classified as:										
Cash	\$	16,790	s —	\$ <u> </u>	\$16,790	\$	13,385	s —	s —	\$13,385
Cash										
equivalents:										
Money market										
fund		144	_	_	144		181		_	181
US Treasury										
and agency										
securities		_	_	_	_		_	_	_	_
Total cash			•							<u> </u>
equivalents		144	_	_	144		181	_	_	181
Total cash and	_					_				
cash										
equivalents		16,934	_	_	16,934		13,566	_	_	13,566
Investments:	_					_				
US Treasury										
and agency										
securities		_	_	_	_		_	_	_	_
Asset-backed										
securities		_	_	_	_		_	_	_	_
Commercial										
paper		_	_	_	_		_	_	_	_
Corporate										
bonds		18,298	171		18,469		22,348		(1,579)	20,769
Total										
investments		18,298	171	_	18,469		22,348	_	(1,579)	20,769
Total cash, cash										
equivalents										
and										
investments	\$	35,232	\$ 171	\$ —	\$35,403	\$	35,914	\$ —	\$ (1,579)	\$34,335
Contractual	_									
maturities										
on										
investments:										
Due within										
1 year	\$	18,298			\$18,469	\$	4,060			\$ 3,822
Due after 1										
through										
5 years		_			_		18,288			16,947
	\$	18,298			\$18,469	\$	22,348			\$20,769
	-	10,270	i.		-10,.07	-	,5 .0			0,.07

The investments include \$0 million and \$3.0 million recorded as restricted deposits on the consolidated balance sheets as of December 31, 2009 and 2008, respectively. The \$3.0 million restricted deposit was a drawdown of our line of credit facility, with an annual interest rate of approximately 4% as of December 31, 2008. The line of credit was fully paid down in the fourth quarter of 2009.

We manage our investments as a single portfolio of highly marketable securities that is intended to be available to meet our current cash requirements. We have no investments in auction rate securities. For the year ended December 31, 2009, we had \$0.2 million of gross realized loss on sales of our available-for-sale securities. For the year ended December 31, 2008, we had \$0.3 million of gross realized gains on sales of our available-

for-sale securities.

The gross unrealized losses related to our portfolio of available-for-sale securities were primarily due to a decrease in the fair value of debt securities as a result of an increase in interest rates during 2009. We have determined that the gross unrealized losses on our available-for-sale securities as of December 31, 2009 are temporary in nature. We reviewed our investment portfolio to identify and evaluate investments that have indications of possible impairment. Factors considered in determining

whether a loss is temporary include the magnitude of the decline in market value, the length of time the market value has been below cost (or adjusted cost), credit quality, and our ability and intent to hold the securities for a period of time sufficient to allow for any anticipated recovery in market value. The following table provides a breakdown of our available-for-sale securities with unrealized losses as of December 31, 2009 and 2008 (in thousands):

		In Loss Position < 12 months		ss Position 2 months		otal In Position
2009	Fair Value	Gross Unrealized (Loss)	Fair Value	Gross Unrealized (Loss)	Fair Value	Gross Unrealized (Loss)
Investments:						
Corporate bonds			\$ 993	\$ (4)	\$ 993	\$ (4)
Total in loss position	_	_	\$ 993	\$ (4)	\$ 993	\$ (4)

		Position nonths		Position months	Total In Loss Position		
2008	Fair Value			Gross Fair Unrealized Value (Loss)		Gross Unrealized (Loss)	
Investments:							
Corporate bonds	\$ 17,583	\$ (1,365)	\$ 3,186	\$ (214)	\$ 20,769	\$ (1,579)	
Total in loss position	\$ 17,583	\$ (1,365)	\$ 3,186	\$ (214)	\$ 20,769	\$ (1,579)	

#### Investments in Privately-held Companies

We have made strategic investments in private companies located in China in order to gain access at a competitive cost to raw materials that are critical to our substrate business (see Note 5). As of December 31, 2009 and December 31, 2008, our investments in unconsolidated privately-held companies had a carrying value of \$5.0 million and \$4.1 million, respectively, and are included in "other assets" in the condensed consolidated balance sheets.

#### Fair Value Measurements

On January 1, 2008, we adopted ASC topic 820, Fair Value Measurements and Disclosures ("ASC 820") which defines fair value, establishes a framework for using fair value to measure assets and liabilities, and expands disclosures about fair value measurements. ASC 820 applies whenever other statements require or permit assets or liabilities to be measured at fair value. ASC 820 applies to all financial assets and financial liabilities that are being measured and reported on a fair value basis and requires disclosure that establishes a framework for measuring fair value and expands disclosure about fair value measurements.

The following table summarizes our financial assets and liabilities measured at fair value on a recurring basis in accordance with ASC 820 as of December 31, 2009 (in thousands):

Quoted Prices in

	 nce as of er 31, 2009	Active M Identica (Lev	arkets of l Assets	Obse	ervable Inputs (Level 2)
Assets:					
Short-term investments:					
Money market fund	\$ 144	\$	144	\$	_
Corporate bonds	18,469		_		18,469
Total	\$ 18,613	\$	144	\$	18,469
Liabilities	\$ _	\$	_	\$	_

Our financial assets and liabilities are valued using market prices on both active markets (Level 1) and less active markets (Level 2). Level 1 instrument valuations are obtained from real-time quotes for transactions in active exchange markets involving identical assets. Level 2 instrument valuations are obtained from readily-available pricing sources for comparable instruments. As of December 31, 2009, we did not have any assets or liabilities without observable market values that would require a high level of judgment to determine fair value (Level 3 assets).

## Items Measured at Fair Value on a Nonrecurring Basis

Certain assets that are subject to nonrecurring fair value measurements are not included in the table above. These assets include equity and cost method investments in private companies. We did not record other-than-temporary impairment charges for either of these investments during 2009.

## Note 3. Inventories, Net

The components of inventory are summarized below (in thousands):

	As of December 31,
	2009 2008
Inventories:	
Raw materials	\$ 12,051 \$ 17,863
Work in process	11,947 12,961
Finished goods	3,720 4,258
	\$ 27,718 \$ 35,082

## Note 4. Property, Plant and Equipment, Net

The components of our property, plant and equipment are summarized below (in thousands):

	As of De	cember 31,
	2009	2008
Property, plant and equipment:		
Building	\$ 16,603	\$ 16,100
Machinery and equipment	25,413	26,225
Leasehold improvements	1,989	1,961
Construction in progress	2,287	2,207
	46,292	46,493
Less: accumulated depreciation and amortization	(25,439	) (24,309)
	\$ 20,853	\$ 22,184

Depreciation expense was \$3.1 million, \$2.2 million, and \$1.5 million for the years ended 2009, 2008, and 2007, respectively.

## Note 5. Investments in Privately-held Companies

We have made strategic investments in private companies located in China in order to gain access to raw materials at a competitive cost that are critical to our substrate business.

Our investments are summarized below (in thousands):

	Inves	mei	nt B	alance				
	As of December 31,				Accounting	Ownership		
Company	2009	2009		19		2008	Method	Percentage
Beijing JiYa Semiconductor Material Co., Ltd	\$ 9	96	\$	996	Consolidated	46%		
Nanjing Jin Mei Gallium Co., Ltd	5	92		592	Consolidated	83%		
Beijing BoYu Semiconductor Vessel Craftwork								
Technology Co., Ltd	4	10		410	Consolidated	70%		
Xilingol Tongli Germanium Co. Ltd	3,3	67		2,906	Equity	25%		
Emeishan Jia Mei High Purity Metals Co., Ltd	8	66		843	Equity	25%		

Our ownership of Beijing Ji Ya Semiconductor Material Co., Ltd. (JiYa) is 46%. We continue to consolidate JiYa as we have significant influence in management and have a majority control of the board. Our chief executive officer is chairman of the board, while our president of China operations and our vice president of China administration and our vice president of wafer production are members of the board. Our former chief executive officer, formerly a member of this board of directors, resigned from this board on March 17, 2009. Our former chief financial officer, formerly chairman of the board, and our former chief operating officer, a member of the board, both resigned from this board in August, 2009.

Our ownership of Nanjing Jin Mei Gallium Co., Ltd. (Jin Mei) is 83%. We continue to consolidate Jin Mei as we have significant influence in management and have a majority control of the board. Our chief executive officer is chairman of the board, while our president of China operations and our vice president of China administration are members of the board. Our former chief executive officer, formerly a member of this board of directors, resigned from this board on March 17, 2009. Our former chief operating officer, formerly the chairman of this board of directors, resigned from this board on August 12, 2009.

We have significant influence over management of Beijing BoYu Semiconductor Vessel Craftwork Technology Co., Ltd (BoYu), have a controlling financial interest of 70%, and have a majority control of the board. Our chief executive officer is chairman of the board and our president of China operations and our vice president of China administration are members of the board. Our former chief executive officer resigned as chairman of the board on March 17, 2009. Our former chief operating officer, a member of the board, resigned from this board on August 12, 2009.

Although we have representation on the boards of directors of each of these companies, the daily operations of each of these companies, are managed by local management and not by us. Decisions concerning their respective short term strategy and operations, any capacity expansion and annual capital expenditures, and decisions concerning sales of finished product, are made by local management without input from us.

The investment balances for the two companies accounted for under the equity method are included in other assets in the consolidated balance sheets and totaled \$4.2 million and \$3.7 million as of December 31, 2009 and 2008, respectively. We own 25% of the ownership interests in each of these companies. These two companies are not considered variable interest entities because:

- both companies have sustainable businesses of their own;
- our voting power is proportionate to our ownership interests;
- we only recognize our respective share of the losses and/or residual returns generated by the companies if they occur; and

• we do not have controlling financial interest in, do not maintain operational or management control of, do not control the board of directors of, and are not required to provide additional investment or financial support to either company.

During 2009, 2008 and 2007, the three consolidated joint ventures generated \$1.2 million, \$3.8 million and \$4.4 million of income, respectively, of which \$0.4 million, \$1.4 million and \$1.9 million, respectively was allocated to minority interests, resulting in \$0.8 million, \$2.4 million and \$2.5 million, respectively to our net income. Our equity earnings from the two-minority owned joint ventures that are not consolidated are recorded as other income (loss), net and totaled \$0.5 million, \$0.9 million and \$1.0 million for 2009, 2008 and 2007, respectively. Undistributed retained earnings relating to our investments in these companies were \$12.4 million, \$11.1 million, and \$7.8 million, respectively as of December 31, 2009, 2008 and 2007. Net income recorded from our investments was \$1.3 million, \$3.3 million, and \$3.5 million for the years ended December 31, 2009, 2008 and 2007, respectively.

Our two 25% minority-owned joint ventures that are not consolidated had the following summarized income information (in thousands) for the twelve months ended December 31, 2009 and 2008, respectively.

		Twelve Mo	nths	Ended	,	Twelve Mo	nth	s Ended	
		Decem	ber 3	31,	December 31,				
		2009	2008		8 2009		_	2008	
Net Sales	\$	2,915	\$	2,833	\$	11,660	\$	11,332	
Gross profit		1,016		1,578		4,063		6,313	
Operating income		441		1,008		1,763		4,030	
Net income		484		884		1,936		3,535	

Our two 25% minority-owned joint ventures that are not consolidated had the following summarized balance sheet information (in thousands) as of December 31, 2009 and 2008, respectively.

	As of Decer			mber 31,	
	2009		2	008	
Current assets:					
Cash	\$ 2,7	04	\$	975	
Accounts receivable, net	2,0	57		402	
Notes receivable	1	63		267	
Inventory	2,4	20		3,038	
Other current assets	5,5	66		913	
Total current assets	12,9	10		5,595	
Property, plant and equipment, net	12,5	50	1	3,848	
Other assets	1,0	89		597	
Total assets	\$ 26,5	49	\$ 2	0,040	
Current liabilities:					
Accounts payable	\$	12	\$	1,002	
Advances from customers	2	64		263	
Long term debt, current portion	2,7	83		729	
Other payables	8	35		1,323	
Dividend payable	1,6	88		2,663	
Total current liabilities	5,5	82		5,980	
Long term debt, net of current portion	4,1	01		_	
Other long term liabilities	1	61		269	
Total liabilities	9,8	44		6,249	
Total stockholders' equity	16,7	05	1	3,791	
Total liabilities and stockholders' equity	\$ 26,5	49	\$ 2	0,040	

### **Note 6. Other Investments**

As of December 31, 2009 we maintain minority investments in three private companies. Our investments in these private companies are reviewed for other than temporary declines in value on a quarterly basis. These investments are classified as other assets in the consolidated balance sheets and are accounted for under the cost method as we do not have the ability to exercise significant influence over their operations. We monitor our investments for impairment and record reductions in carrying value when events or changes in circumstances indicate that the carrying value may not be recoverable. Reasons for other than temporary declines in value include whether the related company would have insufficient cash flow to operate for the next twelve months, significant changes in the operating performance and changes in market conditions. As of December 31, 2009 and 2008, the minority investments totaled approximately \$0.7 million and \$0.4 million, respectively.

#### Note 7. Impairment (recovery) on Assets Held for Sale

In the third quarter of 2006, we incurred an impairment charge of \$1.4 million to write down our U.S. property in Fremont, California, which was being decontaminated and was being prepared for sale. In the second quarter of 2007, we benefited from a recovery of impairment on this asset held for sale in connection with our adjustment of the fair value. We recorded a \$481,000 market value adjustment after we entered into an agreement with an independent third party purchaser in June 2007 to purchase the property for estimated net proceeds of \$5.1 million, after deducting estimated commission

and selling expenses. In the fourth quarter of 2007, that agreement was terminated and we entered into a new sales agreement with another independent third party purchaser to purchase this property for a similar amount. In the first quarter of 2008, we completed the sale of our U.S. property in Fremont, California for \$5.3 million in gross proceeds and \$5.1 million in net proceeds after deducting commissions and selling expenses. We recorded an \$83,000 impairment charge upon the sale of the property.

#### Note 8. Debt

### Credit Facility

We have a credit facility maintained by us with a bank with a \$5.0 million line of credit. As of December 31, 2008, we had drawn down \$3.0 million which carried an annual interest rate of approximately 4%. We had pledged this amount as collateral for this facility. Accordingly, \$3.0 million of cash and short-term investments were restricted as of December 31, 2008. We paid down this \$3.0 million line of credit in the fourth quarter of 2009. Accordingly, as of December 31, 2009, we have an unused \$5.0 million line of credit at an annual interest rate of approximately 1.5% over the current LIBOR (London InterBank Offered Rate) fixed funding rate.

## Long-Term Debt

The components of long-term debt are summarized below (in thousands):

	As	of
	Decem	ber 31,
	2009	2008
Tenant improvement loan at 4.00%	\$ 496	\$ 569
Less current portion	(76)	(73)
	\$ 420	\$ 496
Maturities of long-term debt as of December 31, 2009 were as follows:		
2010	\$ 76	
2011	79	
2012	82	
2013	85	
2014	89	
Thereafter	85	
	\$ 496	

#### Note 9. Stockholders' Equity

In August 2004, we announced the adoption of a stock repurchase program in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934 to provide for the repurchase of up to \$2 million of our common stock. This plan was extended for one year in July 2005. Repurchases were made from time to time in the open market during the twelve-month period ended July 31, 2006, at prevailing market prices using our own cash resources. As of December 31, 2009, we had 30,880,515 shares of common stock outstanding and no shares were repurchased in 2008 and 2009 under this program, which has now expired.

The 883,000 shares of \$0.001 par value Series A preferred stock issued and outstanding as of December 31, 2009 and 2008, valued at \$3,532,000 are non-voting and non-convertible preferred stock with a 5.0% cumulative annual dividend rate payable when declared by the board of directors and \$4 per share liquidation preference over common stock, and must be paid before any distribution is made to common stockholders. These preferred shares were issued to Lyte Optronics, Inc. stockholders in connection with the completion of our acquisition of Lyte Optronics, Inc. on May 28, 1999.

#### Note 10. Employee Benefit Plans

## Stock Option Plans and Equity Incentive Plans

In July 1997, our board of directors approved the 1997 Stock Option Plan ("1997 Plan"), which provides for the grant of incentive and non-qualified stock options to our employees, consultants and directors. Under the 1997 Plan, 5,423,583 shares of common stock have been authorized for issuance. Options granted under the 1997 Plan are generally for periods not to exceed ten years (five years if the option is granted to a 10% stockholder) and are granted at the fair market value of the stock at the date of grant as determined by the board of directors. Options granted under the 1997 Plan generally vest 25% at the end of one year and 2.1% each month thereafter, with full vesting after four years.

In May 2007, our shareholders approved our 2007 Equity Incentive Plan (the "2007 Plan"). The 2007 Plan is a restatement of the 1997 Plan which was scheduled to expire in 2007. The share reserve of the 1997 Plan became the reserve of the 2007 Plan, together with 1,300,000 additional shares approved for issuance under the 2007 Plan. As of December 31, 2007, approximately 2.5 million shares remained available for grant under the 2007 Plan. Awards may be made under the 2007 Plan of stock options, stock appreciation rights, restricted stock, restricted stock units, performance shares, performance units, deferred compensation awards and other stock-based awards. Stock options and stock appreciation rights awarded under the 2007 Plan may not be repriced without stockholder approval. Stock options and stock appreciation rights may not be granted below fair market value. Stock options or stock appreciation rights generally shall not be fully vested over a period of less than three years from the date of grant and cannot be exercised more than 10 years from the date of grant. Restricted stock, restricted stock units, and performance awards generally shall not vest faster than over a three-year period (or a twelve-month period if vesting is based on a performance measure). In December 2008, the 2007 Plan was amended to comply with the applicable requirements under Section 409A of the Internal Revenue Code.

The following summarizes our stock option activity under the 1997 Plan and the 2007 Plan, and the related weighted average exercise price within each category for each of the years ended December 31, 2007, 2008, and 2009 (in thousands, except per share data):

	Available for Grant	Number of Options Outstanding	Weighted- average Exercise Price	Weighted- average Remaining Contractual Life	I	ggregate ntrinsic Value
Balance as of December 31, 2006	1,913	2,728	\$ 2.51	(in years)	\$	7,091
Additional shares authorized	1,300	2,720	ψ 2.31	0.57	Ψ	7,071
Plan shares expired	(124)					
Granted	(354)	354	5.89			
Exercised		(461)	1.95			
Canceled	144	(144)	5.04			
Balance as of December 31, 2007	2,879	2,477	2.95	6.93	\$	8,858
Plan shares expired	(34)					
Granted	(413)	413	1.60			
Exercised	_	(92)	1.85			
Canceled	34	(34)	7.00			
Balance as of December 31, 2008	2,466	2,764	2.74	6.61	\$	92
Plan shares expired	(131)	_				
Granted	(789)	789	1.87			
Exercised	_	(247)	1.42			
Canceled	426	(426)	3.73			
Balance as of December 31, 2009	1,972	2,880	\$ 2.46	5.70	\$	3,850
Options vested and expected to vest as of						
December 31, 2009		2,759	\$ 2.49	5.53	\$	3,688
Options exercisable as of December 31, 2009		1,900	\$ 2.64	3.77	\$	2,567

The options outstanding and exercisable as of December 31, 2009 were in the following exercise price ranges (in thousands, except per share data):

		o	ptions Outstandin December 31, 20	~	Options Vested and Exercisable as of December 31, 2009			
Range of Exercise Price	Shares		eighted-average Exercise Price	Weighted-average Remaining Contractual Life	Shares		eighted-Average Exercise Price	
\$1.17 - \$1.18	340	\$	1.17	2.59	340	\$	1.17	
\$1.22 - \$1.33	310	\$	1.31	5.09	310	\$	1.31	
\$1.34 - \$1.34	7	\$	1.34	5.80	7	\$	1.34	
\$1.38 - \$1.38	305	\$	1.38	3.68	305	\$	1.38	
\$1.40 - \$1.40	1	\$	1.40	5.20	1	\$	1.40	
\$1.59 - \$1.59	576	\$	1.59	7.81	159	\$	1.59	
\$1.86 - \$1.98	44	\$	1.89	4.75	44	\$	1.89	
\$2.04 - \$2.04	489	\$	2.04	9.82	0	\$	0.00	
\$2.19 - \$2.19	313	\$	2.19	2.89	313	\$	2.19	
\$3.11 - \$41.5	495	\$	6.43	4.78	421	\$	6.54	
	2,880	\$	2.46	5.70	1,900	\$	2.64	

The total intrinsic value of options exercised for the years ended December 31, 2009, 2008 and 2007 were \$0.1 million, \$0.3 million and \$1.4 million, respectively. Cash received from option exercises for the years ended December 31, 2009, 2008 and 2007 were \$0.4 million, \$0.2 million, and \$0.9 million, respectively.

As of December 31, 2008 and 2007, options to purchase 1,914,000 shares and 1,638,000 shares at weighted average exercise prices of \$2.58 and \$2.56 per share were vested and exercisable, respectively.

#### Restricted stock awards

A summary of activity related to restricted stock awards for the year ended December 31, 2009 is presented below:

		Weighted-Average Grant Date	
	Shares	Fair Value	
Non-vested restricted stock shares outstanding as of			
December 31, 2007	23,480	\$ 4.26	
Restricted stock shares granted	62,892	\$ 1.59	
Restricted stock shares vested	(7,828)	\$ 4.26	
Non-vested restricted stock shares outstanding as of			
December 31, 2008	78,544	\$ 2.12	
Restricted stock shares granted	120,908	\$ 0.88	
Restricted stock shares vested	(28,792)	\$ 2.32	
Non-vested restricted stock shares outstanding as of			
December 31, 2009	170,660	\$ 1.21	

As of December 31, 2009, we had \$161,000 of unrecognized compensation expense, net of forfeitures, related to restricted stock awards, which will be recognized over the weighted average period of 2.12 years.

### Retirement Savings Plan

We have a 401(k) Savings Plan ("Savings Plan") which qualifies as a thrift plan under Section 401(k) of the Internal Revenue Code. All full-time U.S. employees are eligible to participate in the Savings Plan after 90 days from the date of hire. In 2006 we amended the savings plan to allow all full-time participants (as defined) to contribute up to 10% of their earnings to the Savings Plan with a discretionary matching amount provided by us. Our contributions to the Savings Plan were \$0.5 million, \$0.4 million, and \$0.4 million for the years ended December 31, 2009, 2008 and 2007, respectively.

#### Note 11. Guarantees

## **Indemnification Agreements**

We enter into standard indemnification arrangements in the ordinary course of business. Pursuant to these arrangements, we indemnify, hold harmless, and agree to reimburse the indemnified parties for losses suffered or incurred by the indemnified party, generally their business partners or customers, in connection with any U.S. patent, or any copyright or other intellectual property infringement claim by any third party with respect to our products. The term of these indemnification agreements is generally perpetual anytime after the execution of the agreement. The maximum potential amount of future payments we could be required to make under these agreements is unlimited. We have never incurred costs to defend lawsuits or settle claims related to these indemnification agreements. As a result, we believe the estimated fair value of these agreements is minimal.

We have entered into indemnification agreements with our directors and officers that may require us to indemnify our directors and officers against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct of a culpable nature; to advance their expenses incurred as a result of any proceeding against them as to which they could be indemnified; and to obtain directors' and officers' insurance if available on reasonable terms, which we currently have in place.

### **Product Warranty**

We warrant our products for a specific period of time, generally twelve months, against material defects. We provide for the estimated future costs of warranty obligations in cost of sales when the related revenue is recognized. The accrued warranty costs represent the best estimate at the time of sale of the total costs that we expect to incur to repair or replace product parts, which fail while still under warranty. The amount of accrued estimated warranty costs are primarily based on historical experience as to product failures as well as current information on repair costs. On a quarterly basis, we review the accrued balances and update the historical warranty cost trends. The following table reflects the change in our warranty accrual during 2009 and 2008 (in thousands):

		Years Ended December 31,			
	2009			2008	
Beginning accrued warranty and related costs	\$	1,640	\$	1,030	
Charged to cost of revenue		472		1,022	
Actual warranty expenditures		(1,030)		(412)	
Ending accrued warranty and related costs	\$	1,082	\$	1,640	

#### **Note 12. Income Taxes**

Consolidated (loss) income before provision for income taxes includes non-U.S. income of approximately \$3.3 million, \$4.8 million and \$4.5 million for the years ended December 31, 2009, 2008 and 2007, respectively. The components of the provision (benefit) for income taxes are summarized below (in thousands):

	Yea	Years Ended December 31,				
	2009	2008	2007			
Current:						
Federal	\$ (68	) \$ —	\$ —			
State	(38	) 52	9			
Foreign	577	971	719			
Total current	471	1,023	728			
Deferred:						
Federal	_	_	_			
State		_	_			
Total deferred	_					
Total net provision for income taxes	\$ 471	\$ 1,023	\$ 728			

A reconciliation of the effective income tax rates and the U.S. statutory federal income tax rate is summarized below:

	Years Ended December 31,				
	2009	2008	2007		
Statutory federal income tax rate	35.0%	35.0%	35.0%		
State income taxes, net of federal tax benefits	2.4	1.9	0.1		
Change in valuation allowance	(61.5)	60.1	(3.8)		
Stock compensation	(13.8)	8.6	1.6		
Foreign rate differences	56.9	(71.9)	(19.7)		
Dividend from PRC investee	(86.7)	38.1			
Net loss from privately-held PRC investments	16.4	(17.5)	(4.2)		
Other	5.7	3.6	0.2		
Effective tax rate	(45.6)%	57.9%	9.2%		

Deferred tax assets and liabilities are summarized below (in thousands):

	As of December 31,			
	_	2009		2008
Deferred tax assets:				
Net operating loss	\$	50,362	\$	49,737
Accruals and reserves not yet deductible		3,805		3,988
Credits		1,787		1,944
		55,954		55,669
Deferred tax liabilities:				
Unrepatriated foreign earnings		(1,239)		(1,239)
		(1,239)		(1,239)
Net deferred tax assets		54,715		54,430
Valuation allowance		(54,715)		(54,430)
Net deferred tax assets	\$		\$	_

As of December 31, 2009, we have federal and state net operating loss carryforwards of approximately \$142.4 million and \$41.0 million, respectively, which will expire beginning in 2022 and 2015, respectively. In addition, we have federal tax credit carryforwards of approximately \$1.6 million, which will expire beginning in 2019. We also have state tax credit carryforwards of approximately \$355,000, of which \$1,000 is manufacturing investment credit that will expire beginning in 2011.

The deferred tax assets valuation allowance as of December 31, 2009 is attributed to U.S. federal, and state deferred tax assets, which result primarily from future deductible accruals, reserves and tax depreciation expense, net operating loss carryforwards, and tax credit carryforwards. The Company believes that, based on a number of factors, the available objective evidence creates sufficient uncertainty regarding the realizability of the deferred tax assets such that a full valuation allowance has been recorded. These factors include the Company's history of losses, and the lack of carryback capacity to realize deferred tax assets. The valuation allowance increased by \$0.3 million, increased by \$0.8 million, and increased by \$3.7 million, for the years ended December 31, 2009, 2008 and 2007, respectively.

Our consolidated subsidiaries in China have been granted various tax holidays since 2000. Benefits under the tax holidays vary by jurisdiction. Some of our consolidated subsidiaries' tax holidays have expired on December 31, 2007.

In accordance with Section 382 of the Internal Revenue Code, the amounts of and benefits from net operating loss and tax credit carryforwards may be impaired or limited in certain circumstances. Events which cause limitations in the amount of net operating losses or credits that we may utilize in any one year include, but are not limited to, a cumulative ownership change of more that 50% as defined, over a three year period.

As a result of the implementation of Interpretation 48, we recognized \$16.4 million in the liability for unrecognized tax benefits. Of this amount, none was accounted for as a reduction to the January 1, 2007 balance of retained earnings. The amount decreased tax loss carryforwards in the U.S., which are fully offset by a valuation allowance.

We recognize interest and penalties related to uncertain tax positions in income tax expense. Income tax expense for the year ended December 31, 2009 includes no interest and penalties. As of December 31, 2009, we have no accrued interest and penalties related to uncertain tax positions.

We file income tax returns in the U.S. federal, various states and foreign jurisdictions. We have substantially concluded all U.S. federal and state income tax matters through December 31, 2008.

A reconciliation of the beginning and ending amount of the gross unrecognized tax benefits is as follows (in thousands):

Gross unrecognized tax benefits balance as of December 31, 2008	\$ 16,403
Add:	
Additions based on tax positions related to the current year	_
Additions for tax positions of prior years	_
Gross unrecognized tax benefits balance as of December 31, 2009	\$ 16,403

Excluding the effects of recorded valuation allowances for deferred tax assets, \$16.4 million of the unrecognized tax benefit would favorably impact the effective tax rate in future periods if recognized.

## Note 13. Net income (loss) per Share

A reconciliation of the numerators and denominators of the basic and diluted net income (loss) per share calculations is as follows (in thousands, except per share data):

	Years Ended December 31,					31,
		2009	_	2008	2007	
Numerator:						
Net income (loss) attributable to AXT, Inc	\$	(1,898)	\$	(689)	\$	5,289
Less: Preferred stock dividends		(177)	_	(177)		(177)
Net income (loss) to common stockholders	\$	(2,075)	\$	(866)	\$	5,112
Denominator:						
Denominator for basic net income (loss) per share —weighted average common shares		30,500		30,400		30,035
Effect of dilutive securities:						
Common stock options		_		_		1,310
Restricted stock awards		_		_		3
Denominator for dilutive net income (loss) per share		30,500		30,400		31,348
Basic net income (loss) per share:						
Net income (loss) from attributable to AXT, Inc	\$	(0.07)	\$	(0.03)	\$	0.17
Net income (loss) to common stockholders	\$	(0.07)	\$	(0.03)	\$	0.17
Diluted net income (loss) per share:						
Net income (loss) attributable to AXT, Inc	\$	(0.07)	\$	(0.03)	\$	0.16
Net income (loss) to common stockholders	\$	(0.07)	\$	(0.03)	\$	0.16
Options excluded from diluted net income (loss) per share as the impact is anti-dilutive		2,880		2,764		360
Restricted stock excluded from diluted net income						
(loss) per share as the impact is anti-dilutive		171	_	79		_

Note 14. Segment Information and Foreign Operations

### **Segment Information**

We operate in one segment for the design, development, manufacture and distribution of high-performance compound semiconductor substrates and sale of materials. In accordance with ASC topic 280, Segment Reporting (formerly known as SFAS No. 131, "Disclosures about Segments of an Enterprise and Related Information,") our chief operating decision-maker has been identified as the principal executive officer, who reviews operating results to make decisions about allocating resources and assessing performance for the company. Since we operate in one segment, all financial segment and product line information can be found in the consolidated financial statements.

## Product Type

The following table represents revenue amounts (in thousands) by type:

	Years Ended December 31,			
	2009	2008	2007	
Product type:				
GaAs	\$ 41,054	\$ 49,610	\$ 40,219	
InP	2,375	1,935	1,916	
Ge	5,440	4,248	2,225	
Raw materials	6,440	17,232	13,790	
Other	55	50	53	
	\$ 55,364	\$ 73,075	\$ 58,203	

## Geographical Information

The following table represents revenue amounts (in thousands) reported for products shipped to customers in the corresponding geographic region:

	Years Ended December 31,		
	2009	2008	2007
Product revenue:			
North America*	\$ 10,701	\$ 19,181	\$ 11,839
Europe	10,489	14,524	9,930
Japan	7,777	14,685	13,280
Taiwan	10,453	7,806	9,329
Asia Pacific (excluding Japan and Taiwan)	15,944	16,879	13,825
	\$ 55,364	\$ 73,075	\$ 58,203

<sup>\*</sup> Primarily the United States

Long-lived assets consist primarily of property, plant and equipment, and are attributed to the geographic location in which they are located. Long-lived assets by geographic region were as follows (in thousands):

	_	As of December 31,			
		2009		2008	 2007
Long-lived assets:					
United States of America	\$	661	\$	867	\$ 149
China		20,192		21,317	15,837
	\$	20,853	\$	22,184	\$ 15,986

## Note 15. Foreign Exchange Contracts and Transaction Gains/Losses

As of December 31, 2009, and 2008, we had no outstanding commitments with respect to foreign exchange contracts.

We incurred foreign currency transaction exchange gains (losses) of (\$76,000), \$2,000, and \$(320,000) for the years ended December 31, 2009, 2008, and 2007, respectively.

## **Note 16. Related Party Transactions**

Our Related Party transactions Policy seeks to prohibit all conflicts of interest in transactions between the Company and related parties, unless they have been approved by the Board of Directors of the Company. This policy applies to all employees and directors of the Company, our subsidiaries and our joint ventures. Our executive officers retain board seats on the Board of Directors of the companies in which we have invested in our China joint ventures. See Note 5 for further details.

## Note 17. Commitments and Contingencies

## Legal Matters

The Company is subject to legal proceedings and claims, either asserted or unasserted, that arise in the ordinary course of business. While the outcome of these proceedings and claims cannot be predicted with certainty, management does not believe that the outcome of any of these legal matters will have a material adverse effect on the Company's consolidated financial position, results of operations or cash flows.

#### Leases

We lease certain office space, manufacturing facilities and property under long-term operating leases expiring at various dates through November 2015. On July 2, 2008, we entered into a new lease agreement with the landlord of the facility at 4281 Technology Drive, Fremont, California with approximately 27,760 square feet. The new lease commenced December 1, 2008 for a term of seven years, with an option by us to cancel the new lease after five years, upon forfeiture of the security deposit and payment of one-half of the fifth year's rent. Total rent expenses under these operating leases were \$0.3 million, \$1.7 million (including a \$0.7 million forfeiture of rental deposit in terminating the old lease), and \$0.5 million for the years ended December 31, 2009, 2008 and 2007, respectively, which were net of sublease income of \$0.0 million, \$0.3 million and \$0.2 million, respectively. Our sublease income was terminated in December 2008. Total minimum lease payments under these leases as of December 31, 2009 are summarized below (in thousands):

	Lease	Lease Payment	
2010	\$	309	
2011		277	
2012		280	
2013		288	
2014		300	
Thereafter		286	
	\$	1,740	

## **Purchase Obligations**

Through the normal course of business, we purchase or place orders for the necessary materials of our products from various suppliers and we commit to purchase products where it may incur a penalty if the agreement was canceled. Our purchase agreement to purchase eighteen thousand kilograms of gallium was terminated on December 31, 2008. As of December 31, 2009 we do not have any material purchase obligations.

## Note 18. Unaudited Quarterly Consolidated Financial Data

		Quarter						
	_	First Second		Third		Fourth		
		(in thousands, except per share data)						
2008:								
Revenue	\$	19,634	\$	19,932	\$	17,863	\$	15,646
Gross profit		6,221		6,444		4,537		758
Net income (loss) attributable to AXT,								
Inc		1,959		737		(1,014)		(2,371)
Net income (loss) attributable to AXT,								
Inc per share, basic	\$	0.06	\$	0.02	\$	(0.03)	\$	(0.08)
Net income (loss) attributable to AXT,								
Inc per share, diluted	\$	0.06	\$	0.02	\$	(0.03)	\$	(0.08)
2009:								
Revenue	\$	7,654	\$	13,055	\$	16,819	\$	17,836
Gross profit		(237)		2,516		5,538		6,052
Net income (loss) attributable to AXT,								
Inc		(5,516)		(1,280)		2,121		2,777
Net income (loss) attributable to AXT,								
Inc per share, basic	\$	(0.18)	\$	(0.04)	\$	0.07	\$	0.09
Net income (loss) attributable to AXT,								
Inc per share, diluted	\$	(0.18)	\$	(0.04)	\$	0.07	\$	0.09

## Note 19. Restructuring Charge

During the first quarter of 2009, we reduced the workforce at our Fremont and Beijing facilities by approximately 11 positions that were no longer required to support certain production and administrative operations. This measure was being taken as part of our 2009 operating plan. Accordingly, we recorded a restructuring charge of \$507,000 in March 2009 related to the reduction in force for severance-related expenses from the reduction in force, all of which were paid in the second quarter of 2009. We expect to save approximately \$1.3 million annually in payroll and related expenses. We had no restructuring charge in 2008 nor 2007.

## Note 20. Subsequent Event

On January 29, 2010, we entered into a 5-year contract with AZUR SPACE Solar Power GmbH ("AZUR") pursuant to which we will supply germanium (Ge) substrates to AZUR.

## **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereto duly authorized.

AXT, Inc.

By: /s/ RAYMOND A. LOW

Raymond A. Low

Chief Financial Officer and Corporate Secretary

(Principal Financial Officer)

Date: March 22, 2010

#### POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Morris S. Young and Raymond A. Low, and each of them, his true and lawful attorney-in-fact and agent, with full power of substitution, each with power to act alone, to sign and execute on behalf of the undersigned any and all amendments to this Report on Form 10-K, and to perform any acts necessary in order to file the same, with all exhibits thereto and other documents in connection therewith with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requested and necessary to be done in connection therewith, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or their or his or her substitutes, shall do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature	<u>Title</u>	<u>Date</u>		
/s/ MORRIS A. YOUNG  Morris A. Young	Chief Executive Officer and Director (Principal Executive Officer)	March 22, 2010		
/s/ RAYMOND A. LOW	Chief Financial Officer and Corporate Secretary	March 22, 2010		
Raymond A. Low	(Principal Financial Officer and Principal Accounting Officer)			
/s/ JESSE CHEN	Chairman of the Board of Directors	March 22, 2010		
Jesse Chen				
/s/ DAVID C. CHANG	Director	March 22, 2010		
David C. Chang				
/s/ LEONARD LEBLANC	Director	March 22, 2010		
Leonard LeBlanc				

## AXT, Inc.

## **EXHIBITS**

TO

## FORM 10-K ANNUAL REPORT

## For the Year Ended December 31, 2009

Exhibit	Description
Number 3.1(3)	Description  Restated Certificate of Incorporation
3.2(4)	Certificate of Designation, Preferences and Rights of Series A Preferred Stock (which is incorporated herein
3.2(4)	by reference to Exhibit 2.1 to the registrant's form 8-K dated May 28, 1999).
3.3(5)	Second Amended and Restated By Laws
4.1(5)	Rights Agreement dated April 24, 2001 by and between AXT, Inc. and ComputerShare Trust Company, Inc.
10.1(1)	Form of Indemnification Agreement for directors and officers.*
10.2(1)	1993 Stock Option Plan and forms of agreements thereunder.*
10.3(1)	1997 Stock Option Plan and forms of agreements thereunder.*
10.4(1)	1998 Employee Stock Purchase Plan and forms of agreements thereunder.*
10.5(2)	Purchase and Sale Agreement by and between Limar Realty Corp #23 and AXT, Inc. dated April 1998.
10.6(3)	Bond Purchase Contract between Dain Rauscher Incorporated and AXT, Inc. dated December 1, 1998.
10.7(3)	Remarketing Agreement between Dain Rauscher Incorporated and AXT, Inc. dated December 1, 1998.
10.8(6)	Reimbursement Agreement between Wells Fargo Bank National Association and AXT, Inc. dated April 7,
	2003.
10.9(7)	Asset purchase agreements dated September 4, 2003 by and between Dalian Luming Science and
	Technology Group, Ltd and AXT, Inc. and by and between Lumei Optoelectronics Corp., AXT, Inc., Lyte
	Optronics, Inc., Beijing Tongmei Xtal Technology and Xiamen Advanced Semiconductor Co., Ltd.
10.10(8)	Offer letter to Mr. Philip C.S. Yin.*
10.11(9)	Offer letter to Mr. Minsheng Lin.*
	Employment agreement between the Company and Mr. Wilson W. Cheung.*
	Agreement respecting severance payment between the Company and Dr. Morris S. Young.*
	Employment agreement between the Company and Mr. Davis Zhang.*
10.15(13)	Purchase and Sale Agreement by and between Car West Auto Body, Inc., a California corporation and
	AXT, Inc. dated February 19, 2008.
	Lease agreement dated July 2, 2008 between AXT, Inc. and T. Drive Partners, L.P., a California partnership
	6-inch Supply Agreement dated December 31, 2008 between AXT, Inc. and IQE plc.**
	4-inch Supply Agreement dated December 31, 2008 between AXT, Inc. and IQE plc.**
	2007 Equity Incentive Plan (amended December 8, 2008).
10.20	Forms of agreements under the 2007 Equity Incentive Plan.*
10.21(18)	2009 Executive Bonus Plan.*
10.22 10.23	Employment Letter Agreement between the Company and Mr. Raymond Low.*
10.23	Employment Letter Agreement between the Company and Mr. Davis Zhang.*  Employment Letter Agreement between the Company and Mr. Robert G. Ochrym.*
10.24	2010 Executive Bonus Plan.*
21.1(16)	List of Subsidiaries.
23.1	Consent of Independent Registered Public Accounting Firm, Burr Pilger Mayer, Inc.
24.1	Power of Attorney (see signature page).
۵۳.1	Tower of Attorney (see signature page).

Exhibit	
Number 31.1	Certification by principal executive officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.1	Certification by principal financial officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification by Chief Executive Officer Pursuant to 18 U.S.C. Section 1350, as adopted Pursuant to
	Section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification by Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
(1)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Registration Statement on Form S-1 on March 17, 1998.
(2)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Registration Statement on Amendment No. 2 to Form S-1 on May 11, 1998.
(3)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Annual Report on Form 10-K for the year ended December 31, 1998.
(4)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Form 8-K on June 14, 1999.
(5)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Form 8-K on May 30, 2001.
(6)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Form 10-Q on May 9, 2003.
(7)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Form 10-Q on November 13, 2003.
(8)	Incorporated by reference to exhibit 99.1 to registrant's Form 8-K filed with the SEC on March 17, 2005.
(9)	Incorporated by reference to exhibit 99.1 to registrant's Form 8-K filed with the SEC on June 30, 2005.
(10)	Incorporated by reference to exhibit 99.2 to registrant's Form 8-K filed with the SEC on June 30, 2005.
(11)	Incorporated by reference to exhibit 99.1 to registrant's Form 8-K filed with the SEC on March 30, 2005.
(12)	Incorporated by reference to exhibit 99.1 to registrant's Form 8-K filed with the SEC on January 17, 2006.
(13)	Incorporated by reference to exhibit 10.22 to registrant's Form 8-K filed with the SEC on February 20, 2008.
(14)	Incorporated by reference to the exhibit as of the same number as filed with the SEC in our Form 8-K on July 8, 2008.
(15)	Incorporated by reference to the exhibits as of the same numbers as filed with the SEC in our Form 8-K on January 5, 2009.
(16)	Incorporated by reference to exhibit 21.1 to registrant's Form S-3/A (333-135474) filed with the SEC on July 28, 2007.
(17)	Incorporated by reference to exhibit 10.31 to registrant's Form 10-K filed with the SEC on March 31, 2009.

- (18) Incorporated by reference to exhibit 10.32 to registrant's Form 10-K filed with the SEC on March 31, 2009.
- \* Management contract or compensatory plan.
- \*\* Confidential treatment has been requested of the SEC for portions of the exhibit.

# AXT, INC. RESTRICTED STOCK AGREEMENT

AXT, Inc. has granted to the Participant named in the *Notice of Grant of Restricted Stock Award* (the "*Grant Notice*") to which this Restricted Stock Agreement (together with the Grant Notice, the "*Agreement*") is attached an Award consisting of Shares subject to the terms and conditions set forth in the Grant Notice and this Agreement. The Award has been granted pursuant to and shall in all respects be subject to the terms and conditions of the AXT, Inc. 2007 Equity Incentive Plan (the "*Plan*"), as amended to the Date of Grant, the provisions of which are incorporated herein by reference. By signing the Grant Notice, the Participant: (a) acknowledges receipt of and represents that the Participant has read and is familiar with the Grant Notice, this Agreement, the Plan and a prospectus for the Plan in the form most recently registered with the Securities and Exchange Commission (the "*Plan Prospectus*"), (b) accepts the Award subject to all of the terms and conditions of the Grant Notice, this Agreement and the Plan, and (c) agrees to accept as binding, conclusive and final all decisions or interpretations of the Committee upon any questions arising under the Grant Notice, this Agreement or the Plan.

## 1. <u>DEFINITIONS AND CONSTRUCTION</u>.

- 1.1. **Definitions.** Unless otherwise defined in the Grant Notice, defined terms not explicitly defined in this Agreement but defined in the Plan shall have the same definitions as in the Plan.
- 1.2. **Construction.** Captions and titles contained herein are for convenience only and shall not affect the meaning or interpretation of any provision of this Agreement. Except when otherwise indicated by the context, the singular shall include the plural and the plural shall include the singular. Use of the term "or" is not intended to be exclusive, unless the context clearly requires otherwise.

#### 2. ADMINISTRATION.

All questions of interpretation concerning the Grant Notice and this Agreement shall be determined by the Committee. All determinations by the Committee shall be final and binding upon all persons having an interest in the Award. Any Officer shall have the authority to act on behalf of the Company with respect to any matter, right, obligation, or election which is the responsibility of or which is allocated to the Company herein, provided the Officer has apparent authority with respect to such matter, right, obligation, or election.

#### 3. THE AWARD.

3.1. **Grant and Issuance of Shares**. On the Date of Grant, the Participant will acquire and the Company will issue, subject to the provisions of this Agreement, a number of Shares equal to the Total Number of Shares set forth in the Grant Notice. As a condition to the issuance of the Shares, the Participant shall execute and deliver to the Company along with the

Grant Notice (a) the Joint Escrow Instructions in the form attached to the Grant Notice and (b) the Assignment Separate from Certificate duly endorsed (with date and number of shares blank) in the form attached to the Grant Notice.

- 3.2. **No Monetary Payment Required**. The Participant is not required to make any monetary payment (other than applicable tax withholding, if any) as a condition to receiving the Shares, the consideration for which shall be past services actually rendered and/or future services to be rendered to the Company or for its benefit.
- 3.3. **Certificate Registration**. The certificate for the Shares shall be registered in the name of the Participant, or, if applicable, in the names of the heirs of the Participant.
- 3.4. **Issuance of Shares in Compliance with Law**. The issuance of the Shares shall be subject to compliance with all applicable requirements of federal, state or foreign law with respect to such securities. No Shares shall be issued hereunder if their issuance would constitute a violation of any applicable federal, state or foreign securities laws or other law or regulations or the requirements of any stock exchange or market system upon which the Stock may then be listed. The inability of the Company to obtain from any regulatory body having jurisdiction the authority, if any, deemed by the Company's legal counsel to be necessary to the lawful issuance of any Shares shall relieve the Company of any liability in respect of the failure to issue such Shares as to which such requisite authority shall not have been obtained. As a condition to the issuance of the Shares, the Company may require the Participant to satisfy any qualifications that may be necessary or appropriate, to evidence compliance with any applicable law or regulation and to make any representation or warranty with respect thereto as may be requested by the Company.

## 4. **VESTING CONDITIONS.**

- 4.1. **Normal Vesting.** Except as provided in Section 4.2, the Shares shall vest and become Vested Shares as provided in the Grant Notice. No additional Shares will become Vested Shares following the Participant's termination of Service for any reason. Shares that are not Vested Shares ("*Un vested Shares*") shall be subject to the reacquisition rights set forth in Section 5.1 below.
- 4.2. **Acceleration of Vesting Upon a Change in Control**. In the event of a Change in Control, the Participant shall be fully and immediately vested in *one hundred percent (100%)* of the Shares subject to this Award on the effective date of the Change in Control, so long as the Participant's Service has not terminated prior to the effective date of the Change in Control. The vesting of any Shares and the lapsing of the Company Reacquisition Right as to any Shares solely by reason of this Section 4.2 shall be conditioned upon the consummation of the Change in Control.

### 5. COMPANY REACQUISITION RIGHT.

5.1. **Grant of Company Reacquisition Right**. In the event that (a) the Participant's Service terminates for any reason or no reason, with or without cause, or (b) the

Participant, the Participant's legal representative, or other holder of the Shares, attempts to sell, exchange, transfer, pledge, or otherwise dispose of (other than pursuant to an Ownership Change Event), including, without limitation, any transfer to a nominee or agent of the Participant, any Unvested Shares, the Company shall automatically reacquire the Unvested Shares (the number of which shall be determined as of the earlier to occur of either the event described above in clause (a) or the event described above in clause (b)), and the Participant shall not be entitled to any payment therefor (the "Company Reacquisition Right").

5.2. **Ownership Change Event**. Upon the occurrence of an Ownership Change Event, any and all new, substituted or additional securities or other property to which the Participant is entitled by reason of the Participant's ownership of Unvested Shares shall be Immediately subject to the Company Reacquisition Right and included in the terms "Shares," "Stock," and "Unvested Shares" for all purposes of the Company Reacquisition Right with the same force and effect as the Unvested Shares immediately prior to the Ownership Change Event.

## 6. <u>TAX MATTERS.</u>

6.1. **Tax Withholding.** At the time the Grant Notice is executed, or at any time thereafter as requested by the Company, the Participant hereby authorizes withholding from any amounts payable to the Participant, and otherwise agrees to make adequate provision for, any sums required to satisfy the federal, state, local and foreign tax withholding obligations of the Company, if any, which arise in connection with the Award, including, without limitation, obligations arising upon (a) the transfer of Shares to the Participant, (b) the lapsing of any Vesting Conditions with respect to any Shares, (c) the filing of an election to recognize tax liability, or (d) the transfer by the Participant of any Shares. The Company shall have no obligation to deliver the Shares or to release any Shares from an escrow established pursuant to this Agreement until the tax withholding obligations of the Company have been satisfied by the Participant.

### 6.2. Election Under Section 83(b) of the Code.

(a) The Participant understands that Section 83 of the Code taxes as ordinary income the difference between the amount paid for the Shares, if anything, and the fair market value of the Shares as of the date on which the Shares are "substantially vested," within the meaning of Section 83. In this context, "substantially vested" means that the right of the Company to reacquire the Shares pursuant to the Company Reacquisition Right has lapsed. The Participant understands that he or she may elect to have his or her taxable income determined at the time he or she acquires the Shares rather than when and as the Company Reacquisition Right lapses by filing an election under Section 83(b) of the Code with the Internal Revenue Service no later than thirty (30) days after the date of acquisition of the Shares. The Participant understands that failure to make a timely filing under Section 83(b) will result in his or her recognition of ordinary income, as the Company Reacquisition Right lapses, on the difference between the purchase price, if anything, and the fair market value of the Shares at the time such restrictions lapse, The Pm1icipant further understands, however, that if Shares with respect to which an election under Section 83(b) has been made are forfeited to the Company pursuant to its Company Reacquisition Right, such forfeiture will be treated as a sale on which there is realized

a loss equal to the excess (if any) of the amount paid (if any) by the Participant for the forfeited Shares over the amount realized (if any) upon their forfeiture. If the Participant has paid nothing for the forfeited Shares and has received no payment upon their forfeiture, the Participant understands that he or she will be unable to recognize any loss on the forfeiture of the Shares even though the Participant incurred a tax liability by making an election under Section 83(b).

- (b) The Participant understands that he or she should consult with his or her tax advisor regarding the advisability of filing with the Internal Revenue Service an election under Section 83(b) of the Code, which must be filed no later than thirty (30) days after the date of the acquisition of the Shares pursuant to this Agreement. Failure to file an election under Section 83(b), if appropriate, may result in adverse tax consequences to the Participant. The Participant acknowledges that he or she has been advised to consult with a tax advisor regarding the tax consequences to the Participant of the acquisition of Shares hereunder. ANY ELECTION UNDER SECTION 83(b) THE PARTICIPANT WISHES TO MAKE MUST BE FILED NO LATER THAN 30 DAYS AFTER THE DATE ON WHICH THE PARTICIPANT ACQUIRES THE SHARES. THIS TIME PERIOD CANNOT BE EXTENDED. THE PARTICIPANT ACKNOWLEDGES THAT TIMELY FILING OF A SECTION 83(b) ELECTION IS THE PARTICIPANT'S SOLE RESPONSIBILITY, EVEN IF THE PARTICIPANT REQUESTS THE COMPANY OR ITS REPRESENTATIVE TO FILE SUCH ELECTION ON HIS OR HER BEHALF.
- (c) The Participant will notify the Company in writing if the Participant files an election pursuant to Section 83(b) of the Code. The Company intends, in the event it does not receive from the Participant evidence of such filing, to claim a tax deduction for any amount which would otherwise be taxable to the Participant in the absence of such an election.

#### 7. ESCROW.

- 7.1. **Establishment of Escrow**. To ensure that Shares subject to the Company Reacquisition Right will be available for reacquisition, the Participant agrees to deliver to and deposit with an escrow agent designated by the Company the 'certificate evidencing the Shares, together with an Assignment Separate from Certificate with respect to such certificate duly endorsed (with date and number of shares blank) in the form attached to the Grant Notice, to be held by the agent under the terms and conditions of the Joint Escrow Instructions in the form attached to the Grant Notice (the "*Escrow*"). The Company shall bear the expenses of the Escrow.
- 7.2. **Delivery of Shares to Participant**. The Company shall, to the extent described in the Joint Escrow Instructions, give to the escrow agent a written notice directing the escrow agent to deliver such Shares to the Participant. As soon as practicable after receipt of such notice, the escrow agent shall deliver to the Participant the Shares specified in such notice, and the Escrow shall terminate with respect to such Shares.

# 8. ADJUSTMENTS FOR CHANGES IN CAPITAL STRUCTURE.

In the event of any stock dividend, stock split, reverse stock split, recapitalization, merger, combination, exchange of shares, reclassification, or similar change in the capital structure of the Company, appropriate adjustments shall be made in the number and class of shares subject to this Agreement. Any and all new, substituted or additional securities or other property to which Participant is entitled by reason of his or her ownership of the Shares will be immediately subject to the provisions of this Agreement and the Escrow on the same basis as all Shares originally acquired hereunder and will be included in the terms "Shares" and "Stock" for all purposes of this Agreement and the Escrow with the same force and effect as the Shares presently subject thereto. The adjustments determined by the Board pursuant to this Section 7 shall be final, binding and conclusive.

# 9. **LEGENDS**.

The Company may at any time place legends referencing the Company Reacquisition Right and any applicable federal, state or foreign securities law restrictions on all certificates representing the Shares. The Pm1icipant shall, at the request of the Company, promptly present to the Company any and all certificates representing the Shares in the possession of the Participant in order to carry out the provisions of this Section.

# 10. TRANSFERS IN VIOLATION OF AGREEMENT.

No Shares may be sold, exchanged, transferred (including, without limitation, any transfer to a nominee or agent of the Pm1icipant), assigned, pledged, hypothecated or otherwise disposed of, including by operation of law, in any manner which violates any of the provisions of this Agreement and, except pursuant to an Ownership Change Event, until the date on which such shares become Vested Shares, and any such attempted disposition shall be void. The Company shall not be required (a) to transfer on its books any Shares which will have been transferred in violation of any of the provisions set forth in this Agreement or (b) to treat as owner of such Shares or to accord the right to vote as such owner or to pay dividends to any transferee to whom such Shares will have been so transferred. In order to enforce its rights under this Section, the Company shall be authorized to give a stop trm1sfer instruction with respect to the Shares to the Company's transfer agent.

# 11. RIGHTS AS A STOCKHOLDER.

The Participant shall have no rights as a stockholder with respect to any Shares subject to the Award until the date of the issuance of a certificate for such Shares (as evidenced by the appropriate entry on the books of the Compm1Y or of a duly authorized transfer agent of the Company). No adjustment shall be made for dividends, distributions or other rights for which the record date is prior to the date such certificate is issued, except as provided in Section 7. Subject to the provisions of this Agreement, the Participant shall be entitled to all rights and privileges of a stockholder of the Company with respect to Shares deposited in the Escrow pursuant to Section 6.

# 12. RIGHT TO CONTINUED SERVICE WITH THE COMPANY.

Nothing in this Agreement shall confer upon the Participant any right to continue in the Service of a Participating Company or interfere in any way with any right of the Participating Company Group to terminate the Participant's Service at any time.

# 13. MISCELLANEOUS PROVISIONS.

- 13.1. **Amendment**. The Board may terminate or amend the Plan or this Agreement at any time; provided, however, that except as provided in Section 4 in connection with a Change in Control, no such termination or amendment may adversely affect the Participant's rights under this Agreement unless such termination or amendment is necessary to comply with any applicable law or government regulation. No amendment or addition to this Agreement shall be effective unless in writing. Notwithstanding any other provision of this Agreement to the contrary, the Board may, in its sole and absolute discretion and without the consent of the Participant, amend this Agreement, to take effect retroactively or otherwise, as it deems necessary or advisable for the purpose of conforming this Agreement to any present or future law, regulation or rule applicable to this Agreement, including, but not limited to, Section 409 A of the Code and all applicable guidance promulgated thereunder.
- 13.2. **Nontransferability of the Award**. The right to acquire Shares pursuant to the Award may not be assigned or transferred in any manner except by will or by the laws of descent and distribution. During the lifetime of the Participant, all rights with respect to this Award shall be exercisable only by the Participant.
- 13.3. **Further Instruments**. The parties hereto agree to execute such further instruments and to take such further action as may reasonably be necessary to carry out the intent of this Agreement.
- 13.4. **Binding Effect**. Subject to the restrictions on transfer set forth herein, this Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective heirs, executors, administrators, successors and assigns.
- 13.5. **Delivery of Documents and Notices**. Any document relating to participation in the Plan or any notice required or permitted hereunder shall be given in writing and shall be deemed effectively given (except to the extent that this Agreement provides for effectiveness only upon actual receipt of such notice) upon personal delivery, electronic delivery at the e-mail address, if any, provided for the Participant by a Participating Company, or upon deposit in the U.S. Post Office or foreign postal service, by registered or certified mail, or with a nationally recognized overnight courier service, with postage and fees prepaid, addressed to the other party at the address of such party set forth in the Grant Notice or at such other addressed as such party may designate in writing from time to time to the other party.
- (a) **Description of Electronic Delivery**. The Plan documents, which may include but do not necessarily include: the Plan, the Grant Notice, this Agreement, the Plan Prospectus, and any reports of the Company provided generally to the Company's stockholders.

may be delivered to the Participant electronically. Such means of electronic delivery may include but do not necessarily include the delivery of a link to a Company intranet or the internet site of a third party involved in administering the Plan, the delivery of the document via e-mail or such other means of electronic delivery specified by the Company.

- (b) Consent to Electronic Delivery. The Participant acknowledges that the Participant has read Section 13.5(a) of this Agreement and consents to the electronic delivery of the Plan documents, as described in Section 13.5(a). The Participant acknowledges that he or she may receive from the Company a paper copy of any documents delivered electronically at no cost to the Participant by contacting the Chief Financial Officer of the Company by telephone or in writing. The Participant further acknowledges that the Participant will be provided with a paper copy of any documents if the attempted electronic delivery of such documents fails. Similarly, the Participant understands that the Participant must provide the Company or any designated third party administrator with a paper copy of any documents if the attempted electronic delivery of such documents fails. The Participant may revoke his or her consent to the electronic delivery of documents described in Section 13.5(a) or may change the electronic mail address to which such documents are to be delivered (if Participant has provided an electronic mail address) at any time by notifying the Company of such revoked consent or revised e-mail address by telephone, postal service or electronic mail. Finally, the Participant understands that he or she is not required to consent to electronic delivery of documents described in Section 13.5(a).
- 13.6. **Integrated Agreement**. The Grant Notice, this Agreement and the Plan, together with any employment, service or other agreement between the Participant and a Participating Company referring to the Award, shall constitute the entire understanding and agreement of the Participant and the Participating Company Group with respect to the subject matter contained herein and supersede any prior agreements, understandings, restrictions, representations, or warranties among the Participant and the Participating Company Group with respect to such subject matter. To the extent contemplated herein, the provisions of the Grant Notice, the Agreement and the Plan shall remain in full force and effect at all times in respect of this Award.
- 13.7. **Applicable Law**. This Agreement shall be governed by the laws of the State of Delaware as such laws are applied to agreements between Delaware residents entered into and to be performed entirely within the State of Delaware.
- 13.8. **Counterparts**. The Grant Notice may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

Accepted by:	 -	
Date:	-	

# AXT, INC. STOCK OPTION AGREEMENT

AXT, Inc. has granted to the individual (the "Optionee") named in the Notice of Grant of Stock Option (the "Notice") to which this Stock Option Agreement (the "Option Agreement") is attached an option (the "Option") to purchase certain shares of Stock upon the terms and conditions set forth in the Notice and this Option Agreement. The Option has been granted pursuant to and shall in all respects be subject to the terms and conditions of the AXT, Inc. 2007 Equity Incentive Plan as set forth in the Notice (the "Plan"), as amended to the Date of Option Grant, the provisions of which are incorporated herein by reference. By signing the Notice, the Optionee: (a) represents that the Optionee has read and is familiar with the terms and conditions of the Notice, the Plan and this Option Agreement, including the Effect of Termination of Service set forth in Section 7, (b) accepts the Option subject to all of the terms and conditions of the Notice, the Plan and this Option Agreement, (c) agrees to accept as binding, conclusive and final all decisions or interpretations of the Board upon any questions arising under the Notice, the Plan or this Option Agreement, and (d) acknowledges receipt of a copy of the Notice, the Plan and this Option Agreement.

# 1. <u>DEFINITIONS AND CONSTRUCTION</u>.

- 1.1 **Definitions.** Unless otherwise defined herein, capitalized terms shall have the meanings assigned to such terms in the Notice or the Plan.
- 1.2 **Construction.** Captions and titles contained herein are for convenience only and shall not affect the meaning or interpretation of any provision of this Option Agreement. Except when otherwise indicated by the context, the singular shall include the plural and the plural shall include the singular. Use of the term "or" is not intended to be exclusive, unless the context clearly requires otherwise.

# 2. TAX CONSEQUENCES.

- 2.1 **Tax Status of Option.** This Option is intended to have the tax status designated in the Notice.
- (a) *Incentive Stock Option*. If the Notice so designates, this Option is intended to be an Incentive Stock Option within the meaning of Section 422(b) of the Code, but the Company does not represent or warrant that this Option qualifies as such. The Optionee should consult with the Optionee's own tax advisor regarding the tax effects of this Option and the requirements necessary to obtain favorable income tax treatment under Section 422 of the Code, including, but not limited to, holding period requirements. (NOTE TO OPTIONEE: If the Option is exercised more than three (3) months after the date on which you cease to be an Employee (other than by reason of your death or permanent and total disability as defined in

- (b) *Nonstatutory Stock Option.* If the Notice so designates, this Option is intended to be a Nonstatutory Stock Option and shall not be treated as an Incentive Stock Option within the meaning of Section 422(b) of the Code.
- 1SO Fair Market Value Limitation. If the Notice designates this Option as an Incentive Stock Option, then to the extent that the Option (together with all Incentive Stock Options granted to the Optionee under all stock option plans of the Participating Company Group, including the Plan) becomes exercisable for the first time during any calendar year for shares having a Fair Market Value greater than One Hundred Thousand Dollars (\$100,000), the portion of such options which exceeds such amount will be treated as Nonstatutory Stock Options. For purposes of this Section 2.2, options designated as Incentive Stock Options are taken into account in the order in which they were granted, and the Fair Market Value of stock is determined as of the time the option with respect to such stock is granted. If the Code is amended to provide for a different limitation from that set forth in this Section 2.2, such different limitation shall be deemed incorporated herein effective as of the date required or permitted by such amendment to the Code. If the Option is treated as an Incentive Stock Option in part and as a Nonstatutory Stock Option in part by reason of the limitation set forth in this Section 2.2, the Optionee may designate which portion of such Option the Optionee is exercising. In the absence of such designation, the Optionee shall be deemed to have exercised the Incentive Stock Option portion of the Option first. Separate certificates representing each such portion shall be issued upon the exercise of the Option. (NOTE TO OPTIONEE: If the aggregate Exercise Price of the Option (that is, the Exercise Price multiplied by the Number of Option Shares) plus the aggregate exercise price of any other Incentive Stock Options you hold (whether granted pursuant to the Plan or any other stock option plan of the Participating Company Group) is greater than \$100,000, you should contact the Chief Financial Officer of the Company to ascertain whether the entire Option qualifies as an Incentive Stock Option.)

#### 3. **ADMINISTRATION**.

All questions of interpretation concerning this Option Agreement shall be determined by the Committee. All determinations by the Committee shall be final and binding upon all persons having an interest in the Option. Any Officer shall have the authority to act on behalf of the Company with respect to any matter, right, obligation, determination or election which is the responsibility of or which is allocated to the Company herein, provided the Officer has apparent authority with respect to such matter, right, obligation, determination or election.

# 4. EXERCISE OF THE OPTION.

- 4.1 **Right to Exercise.** Except as otherwise provided herein, the Option shall be exercisable on and after the Date of Option Grant (or if later, the Optionee's Service commencement date) and prior to the termination of the Option (as provided in Section 6) in an amount not to exceed the number of Vested Shares less the number of shares previously acquired upon exercise of the Option.
- 4.2 **Method of Exercise.** Exercise of the Option shall be by electronic or written notice (the "*Exercise Notice*") in a form authorized by the Company. An electronic Exercise Notice must be digitally signed or authenticated by the Optionee in such manner as

required by the notice and transmitted to the Company or an authorized representative of the Company (including a third-party administrator designated by the Company). In the event that the Optionee is not authorized or is unable to provide an electronic Exercise Notice, the Option shall be exercised by a written Exercise Notice addressed to the Company, which shall be signed by the Optionee and delivered in person, by certified or registered mail, return receipt requested, by confirmed facsimile transmission, or by such other means as the Company may permit, to the Company, or an authorized representative of the Company (including a third-party administrator designated by the Company). Each Exercise Notice, whether electronic or written, must state the Optionee's election to exercise the Option, the number of whole shares of Stock for which the Option is being exercised and such other representations and agreements as to the Optionee's investment intent with respect to such shares as may be required pursuant to the provisions of this Option Agreement. Further, each Exercise Notice must be received by the Company prior to the termination of the Option as set forth in Section 6 and must be accompanied by full payment of the aggregate Exercise Price for the number of shares of Stock being purchased. The Option shall be deemed to be exercised upon receipt by the Company of such electronic or written Exercise Notice and the aggregate Exercise Price.

# 4.3 **Payment of Exercise Price.**

(a) Forms of Consideration Authorized. Except as otherwise provided below, payment of the aggregate Exercise Price for the number of shares of Stock for which the Option is being exercised shall be made (i) in cash, by check, or cash equivalent, (ii) by tender to the Company, or attestation to the ownership, of whole shares of Stock owned by the Optionee having a Fair Market Value (as determined by the Company without regard to any restrictions on transferability applicable to such stock by reason of federal or state securities laws or agreements with an underwriter for the Company) not less than the aggregate Exercise Price, (iii) by means of a Cashless Exercise, as defined in Section 4.3(b), or (iv) by any combination of the foregoing.

#### (b) Limitations on Forms of Consideration.

(i) **Tender of Stock.** Notwithstanding the foregoing, the Option may not be exercised by tender to the Company, or attestation to the ownership, of shares of Stock to the extent such tender or attestation would constitute a violation of the provisions of any law, regulation or agreement restricting the redemption of the Company 's stock. The Option may not be exercised by tender to the Company of shares of Stock unless such shares either have been owned by the Optionee for more than six (6) months or were not acquired, directly or indirectly, from the Company.

(ii) **Cashless Exercise.** A "Cashless Exercise" means the delivery of a properly executed notice together with irrevocable instructions to a broker in a form acceptable to the Company providing for the assignment to the Company of the proceeds of a sale or loan with respect to some or all of the shares of Stock acquired upon the exercise of the Option pursuant to a program or procedure approved by the Company (including, without limitation, through an exercise complying with the provisions of Regulation T as promulgated from time to time by the Board of Governors of the Federal Reserve System). The Company reserves, at any and all times, the right, in the Company's sole and absolute discretion, to

establish, decline to approve or terminate any such program or procedure, including with respect to the Optionee notwithstanding that such program or procedures may be available to others.

# 4.4 Tax Withholding.

- (a) *In General*. At the time the Option is exercised, in whole or in part, or at any time thereafter as requested by the Company, the Optionee hereby authorizes withholding from payroll and any other amounts payable to the Optionee, and otherwise agrees to make adequate provision for (including by means of a Cashless Exercise to the extent permitted by the Company), any sums required to satisfy the federal, state, local and foreign tax withholding obligations of the Participating Company Group, if any, which arise in connection with the Option. The Company shall have no obligation to deliver shares of Stock until the tax withholding obligations of the Participating Company Group have been satisfied by the Optionee.
- (b) *Withholding in Shares.* The Company may permit or require the Optionee to satisfy all or any portion of a Participating Company's tax withholding obligations upon exercise of the Option by deducting from the shares of Stock otherwise issuable to the Optionee upon such exercise a number of whole shares having a fair market value, as determined by the Company as of the date of exercise, not in excess of the amount of such tax withholding obligations determined by the applicable minimum statutory withholding rates. Any adverse consequences to the Optionee resulting from the procedure permitted under this Section, including, without limitation, tax consequences, shall be the sole responsibility of the Optionee.
- 4.5 **Beneficial Ownership of Shares; Certificate Registration.** The Optionee hereby authorizes the Company, in its sole discretion, to deposit for the benefit of the Optionee with any broker with which the Optionee has an account relationship of which the Company has notice any or all shares acquired by the Optionee pursuant to the exercise of the Option. Except as provided by the preceding sentence, a certificate for the shares as to which the Option is exercised shall be registered in the name of the Optionee, or, if applicable, in the names of the heirs of the Optionee.
- 4.6 **Restrictions on Grant of the Option and Issuance of Shares.** The grant of the Option and the issuance of shares of Stock upon exercise of the Option shall be subject to compliance with all applicable requirements of federal, state or foreign law with respect to such securities. The Option may not be exercised if the issuance of shares of Stock upon exercise would constitute a violation of any applicable federal, state or foreign securities laws or other law or regulations or the requirements of any stock exchange or market system upon which the Stock may then be listed. In addition, the Option may not be exercised unless (i) a registration statement under the Securities Act shall at the time of exercise of the Option be in effect with respect to the shares issuable upon exercise of the Option or (ii) in the opinion of legal counsel to the Company, the shares issuable upon exercise of the Option may be issued in accordance with the terms of an applicable exemption from the registration requirements of the Securities Act. THE OPTIONEE IS CAUTIONED THAT THE OPTION MAY NOT BE EXERCISED UNLESS THE FOREGOING CONDITIONS ARE SATISFIED. ACCORDINGLY, THE OPTIONEE MAY NOT BE ABLE TO EXERCISE THE OPTION WHEN DESIRED EVEN THOUGH THE OPTION IS VESTED. The inability of the Company to obtain from any

regulatory body having jurisdiction the authority, if any, deemed by the Company's legal counsel to be necessary to the lawful issuance and sale of any shares subject to the Option shall relieve the Company of any liability in respect of the failure to issue or sell such shares as to which such requisite authority shall not have been obtained. As a condition to the exercise of the Option, the Company may require the Optionee to satisfy any qualifications that may be necessary or appropriate, to evidence compliance with any applicable law or regulation and to make any representation or warranty with respect thereto as may be requested by the Company.

4.7 **Fractional Shares.** The Company shall not be required to issue fractional shares upon the exercise of the Option.

#### 5. **NONTRANSFERABILITY OF THE OPTION.**

During the lifetime of the Optionee, the Option shall be exercisable only by the Optionee or the Optionee's guardian or legal representative. The Option shall not be subject in any manner to anticipation, alienation, sale, exchange, transfer, assignment, pledge, encumbrance, or garnishment by creditors of the Optionee or the Optionee's beneficiary, except transfer by will or by the laws of descent and distribution. Following the death of the Optionee, the Option, to the extent provided in Section 7, may be exercised by the Optionee 's legal representative or by any person empowered to do so under the deceased Optionee's will or under the then applicable laws of descent and distribution.

# 6. <u>TERMINATION OF THE OPTION</u>.

The Option shall terminate and may no longer be exercised on the first to occur of (a) the Option Expiration Date, (b) the last date for exercising the Option following termination of the Optionee's Service as described in Section 7, or (c) a Change in Control to the extent provided in Section 8.

# 7. **EFFECT OF TERMINATION OF SERVICE.**

- 7.1 **Option Exercisability.** The Option shall terminate immediately upon the Optionee's termination of Service to the extent that it is then unvested and shall be exercisable after the Optionee's termination of Service to the extent it is then vested only during the applicable time period as determined below and thereafter shall terminate.
- (a) **Disability.** If the Optionee's Service with the Participating Company Group terminates because of the Disability of the Optionee, the Option, to the extent unexercised and exercisable on the date on which the Optionee 's Service terminated, may be exercised by the Optionee (or the Optionee's guardian or legal representative) at any time prior to the expiration of twelve (12) months after the date on which the Optionee 's Service terminated, but in any event no later than the Option Expiration Date.
- (b) **Death.** If the Optionee's Service with the Participating Company Group terminates because of the death of the Optionee, the Option, to the extent unexercised and exercisable on the date on which the Optionee 's Service terminated, may be exercised by the Optionee 's legal representative or other person who acquired the right to exercise the Option by reason of the Optionee 's death at any time prior to the expiration of twelve (12) months after the

date on which the Optionee's Service terminated, but in any event no later than the Option Expiration Date. The Optionee's Service shall be deemed to have terminated on account of death if the Optionee dies within three (3) months after the Optionee's termination of Service.

- (c) Other Termination of Service. If the Optionee's Service with the Participating Company Group terminates for any reason, except Disability or death, the Option, to the extent unexercised and exercisable by the Optionee on the date on which the Optionee 's Service terminated, may be exercised by the Optionee at any time prior to the expiration of three (3) months (or such other longer period of time as determined by the Board, in its discretion) after the date on which the Optionee's Service terminated, but in any event no later than the Option Expiration Date.
- 7.2 **Extension if Exercise Prevented by Law.** Notwithstanding the foregoing, other than termination of Service for Cause, if the exercise of the Option within the applicable time periods set forth in Section 7.1 is prevented by the provisions of Section 4.6 or a sale of shares pursuant to a Cashless Exercise of the Option would violate the provisions of the Company's Insider Trading Policy, the Option shall remain exercisable until three (3) months after the date such exercise or sale, as the case may be, would no longer be prevented by such provisions, but in any event no later than the Option Expiration Date.
- 7.3 **Extension if Optionee Subject to Section 16(b).** Notwithstanding the foregoing, if a sale within the applicable time periods set forth in Section 7.1 of shares acquired upon the exercise of the Option would subject the Optionee to suit under Section 16(b) of the Exchange Act, the Option shall remain exercisable until the earliest to occur of (i) the tenth (10th) day following the date on which a sale of such shares by the Optionee would no longer be subject to such suit, (ii) the one hundred and ninetieth (190th) day after the Optionee 's termination of Service, or (iii) the Option Expiration Date.
- 7.4 **Termination for Cause.** Except as otherwise provided in a contract of employment or service between a Participating Company and the Optionee, and notwithstanding any other provision of this Option Agreement to the contrary, if the Optionee's Service with the Participating Company Group is terminated for Cause, the Option shall terminate and cease to be exercisable immediately upon such termination of Service.

# 8. <u>CHANGE IN CONTROL</u>.

# 8.1 **Definitions**:

- (a) An "Ownership Change Event" shall be deemed to have occurred if any of the following occurs with respect to the Company: (i) the direct or indirect sale or exchange in a single or series of related transactions by the stockholders of the Company of more than fifty percent (50%) of the voting stock of the Company; (ii) a merger or consolidation in which the Company is a party; or (iii) the sale, exchange, or transfer of all or substantially all, as determined by the Board in its discretion, of the assets of the Company.
- (b) "Change in Control" means, unless such term or an equivalent term is otherwise defined with respect to an Award by the Optionee's Award Agreement or written contract of employment or service, the occurrence of any of the following:

- (i) an Ownership Change Event or a series of related Ownership Change Events (collectively, a " *Transaction*") in which the stockholders of the Company immediately before the Transaction do not retain immediately after the Transaction, in substantially the same proportions as their ownership of shares of the Company's voting stock immediately before the Transaction, direct or indirect beneficial ownership of more than fifty percent (50%) of the total combined voting power of the outstanding voting securities of the Company or, in the case of an Ownership Change Event described in Section 8.1(a)(iii), the entity to which the assets of the Company were transferred (the " *Transferee*"), as the case may be; or
  - (ii) the liquidation or dissolution of the Company.

For purposes of the preceding sentence, indirect beneficial ownership shall include, without limitation, an interest resulting from ownership of the voting securities of one or more corporations or other business entities which own the Company or the Transferee, as the case may be, either directly or through one or more subsidiary corporations or other business entities. The Board shall have the right to determine whether multiple sales or exchanges of the voting securities of the Company or multiple Ownership Change Events are related, and its determination shall be final, binding and conclusive.

Effect of Change in Control on Option. In the event of a Change in Control, the surviving, continuing, successor, or 8.2 purchasing corporation or other business entity or parent corporation thereof, as the case may be (the "Acquiring Corporation"), may, without the consent of the Optionee, either assume the Company's rights and obligations under the Option or substitute for the Option a substantially equivalent option for the Acquiring Corporation's stock. For purposes of this Section 8.2, the Option shall be deemed assumed if, following the Change in Control, the Option confers the right to purchase in accordance with its terms and conditions, for each share of Stock subject to the Option immediately prior to the Change in Control, the consideration (whether stock, cash or other securities or property) to which a holder of a share of Stock on the effective date of the Change in Control was entitled. The Option shall terminate and cease to be outstanding effective as of the date of the Change in Control to the extent that the Option is neither assumed or substituted for by the Acquiring Corporation in connection with the Change in Control nor exercised as of the date of the Change in Control. Notwithstanding the foregoing, shares acquired upon exercise of the Option prior to the Change in Control and any consideration received pursuant to the Change in Control with respect to such shares shall continue to be subject to all applicable provisions of this Option Agreement except as otherwise provided herein. Furthermore, notwithstanding the foregoing, if the corporation the stock of which is subject to the Option immediately prior to an Ownership Change Event described in Section 8.1(a)(i) constituting a Change in Control is the surviving or continuing corporation and immediately after such Ownership Change Event less than fifty percent (50%) of the total combined voting power of its voting stock is held by another corporation or by other corporations that are members of an affiliated group within the meaning of Section 1504(a) of the Code without regard to the provisions of Section 1504(b) of the Code, the Option shall not terminate unless the Board otherwise provides in its sole discretion.

# 9. ADJUSTMENTS FOR CHANGES IN CAPITAL STRUCTURE.

Subject to any required action by the stockholders of the Company and the requirements of Section 409A and 424 of the Code to the extent applicable, in the event of any change in the Stock effected without receipt of consideration by the Company, whether through merger, consolidation, reorganization, reincorporation, recapitalization, reclassification, stock dividend, stock split, reverse stock split, split-up, split-off, spin-off, combination of shares, exchange of shares, or similar change in the capital structure of the Company, or in the event of payment of a dividend or distribution to the stockholders of the Company in a form other than Stock (excepting normal cash dividends) that has a material effect on the Fair Market Value of shares of Stock, appropriate adjustments shall be made in the number and kind of shares subject to the Option, and in the exercise per share, in order to prevent dilution or enlargement of the Optionees' rights under the Option. For purposes of the foregoing, conversion of any convertible securities of the Company shall not be treated as "effected without receipt of consideration by the Company." If a majority of the shares which are of the same class as the shares that are subject to outstanding Awards are exchanged for, converted into, or otherwise become (whether or not pursuant to an Ownership Change Event) shares of another corporation (the "New Shares"), the Committee may unilaterally amend the outstanding Options to provide that such Options are exercisable for New Shares. In the event of any such amendment, the number of shares subject to, and the exercise price per share of, the Option shall be adjusted in a fair and equitable manner as determined by the Board, in its discretion. Any fractional share resulting from an adjustment pursuant to this Section 9 shall be rounded down to the nearest whole number. The Committee in its sole discretion, may also make such adjustments in the terms of the Option to reflect, or related to, such changes in the capital structure of the

# 10. RIGHTS AS A STOCKHOLDER, EMPLOYEE OR CONSULTANT.

The Optionee shall have no rights as a stockholder with respect to any shares covered by the Option until the date of the issuance of a certificate for the shares for which the Option has been exercised (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company). No adjustment shall be made for dividends, distributions or other rights for which the record date is prior to the date such certificate is issued, except as provided in Section 9. If the Optionee is an Employee, the Optionee understands and acknowledges that, except as otherwise provided in a separate, written employment agreement between a Participating Company and the Optionee, the Optionee 's employment is "at will" and is for no specified term. Nothing in this Option Agreement shall confer upon the Optionee any right to continue in the Service of a Participating Company or interfere in any way with any right of the Participating Company Group to terminate the Optionee 's Service as an Employee or Consultant, as the case may be, at any time.

# 11. NOTICE OF SALES UPON DISQUALIFYING DISPOSITION.

The Optionee shall dispose of the shares acquired pursuant to the Option only in accordance with the provisions of this Option Agreement. In addition, if the Notice designates this Option as an Incentive Stock Option, the Optionee shall (a) promptly notify the Chief

Financial Officer of the Company if the Optionee disposes of any of the shares acquired pursuant to the Option within one (1) year after the date the Optionee exercises all or part of the Option or within two (2) years after the Date of Option Grant and (b) provide the Company with a description of the circumstances of such disposition. Until such time as the Optionee disposes of such shares in a manner consistent with the provisions of this Option Agreement, unless otherwise expressly authorized by the Company, the Optionee shall hold all shares acquired pursuant to the Option in the Optionee 's name (and not in the name of any nominee) for the one-year period immediately after the exercise of the Option and the two-year period immediately after Date of Option Grant. At any time during the one-year or two-year periods set forth above, the Company may place a legend on any certificate representing shares acquired pursuant to the Option requesting the transfer agent for the Company 's stock to notify the Company of any such transfers. The obligation of the Optionee to notify the Company of any such transfer shall continue notwithstanding that a legend has been placed on the certificate pursuant to the preceding sentence.

#### 12. **LEGENDS**.

The Company may at any time place legends referencing any applicable federal, state or foreign securities law restrictions, and, if applicable, that the shares were acquired upon exercise of an Incentive Stock Option on all certificates representing shares of stock subject to the provisions of this Option Agreement. The Optionee shall, at the request of the Company, promptly present to the Company any and all certificates representing shares acquired pursuant to the Option in the possession of the Optionee in order to carry out the provisions of this Section.

# 13. MISCELLANEOUS PROVISIONS.

- 13.1 **Binding Effect.** Subject to the restrictions on transfer set forth herein, this Option Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective heirs, executors, administrators, successors and assigns.
- 13.2 **Termination or Amendment.** The Board may terminate or amend the Plan or the Option at any time; provided, however, that except as provided in Section 8 in connection with a Change in Control, no such termination or amendment may adversely affect the Option or any unexercised portion hereof without the consent of the Optionee unless such termination or amendment is necessary to comply with any applicable law or government regulation, including, but not limited to, Section 409A, or is required to enable the Option, if designated an Incentive Stock Option in the Notice, to qualify as an Incentive Stock Option. No amendment or addition to this Option Agreement shall be effective unless in writing.
- 13.3 **Further Instruments.** The parties hereto agree to execute such further instruments and to take such further action as may reasonably be necessary to carry out the intent of this Option Agreement.
- 13.4 **Delivery of Documents and Notices.** Any document relating to participation in the Plan or any notice required or permitted hereunder shall be given in writing and shall be deemed effectively given (except to the extent that this Option Agreement provides

a Participating Company, or upon deposit in the U.S. Post C	on personal delivery, electronic delivery at the e-mail address, if any, provided for the Optionee by Office or foreign postal service, by registered or certified mail, or with a nationally recognized dressed to the other party at the address of such party set forth in the Grant Notice or at such other party.
the Grant Notice, this Option Agreement, the Plan Prospect delivered to the Optionee electronically. In addition, the Opt Company or to such third party involved in administering the	tronic Delivery. The Plan documents, which may include but do not necessarily include: the Plan tus, and any reports of the Company provided generally to the Company's stockholders, may be tionee may deliver electronically the Grant Notice and Exercise Notice called for by Section 4.2 to the he Plan as the Company may designate from time to time. Such means of electronic delivery may to a Company intranet or the Internet site of a third party involved in administering the Plan, the electronic delivery specified by the Company.
Agreement and consents to the electronic delivery of the Pla Section 13.4(a). The Optionee acknowledges that he or she the Optionee by contacting the Company by telephone or in of any documents if the attempted electronic delivery of suc Company or any designated third party administrator with a Optionee may revoke his or her consent to the electronic delivery of such documents are to be delivered (if Optionee has provide revised e-mail address by telephone, postal service or electrodelivery of documents described in Section 13.4(a).  13.5 Integrated Agreement. The the Optionee and the Participating Company Group with resunderstandings, restrictions, representations, or warranties another than those as set forth or provided for herein or therein Agreement shall survive any exercise of the Option and shall survive any exercise of the Option and shall survive any exercise of the Option and to be agreements between Delaware residents entered into and to be	ion Agreement shall be governed by the laws of the State of Delaware as such laws are applied to
☐ Incentive Stock Option ☐ Nonstatutory Stock Option	Optionee:
_ Nonstitutivity Stock option	Date:
S	TOCK OPTION EXERCISE NOTICE
AXT, Inc. Attention: Chief Financial Officer 4281 Technology Drive Fremont, California 94538	
Ladies and Gentlemen:	
	"Option") to purchase shares of the common stock (the "Shares") of AXT, Inc. (the plan identified below (the "Plan"), my Notice of Grant of Stock Option (the "Notice") and my llows:
Company Equity Incentive Plan:	2007 Equity Incentive Plan
Grant Number:	
Date of Option Grant:	
Number of Option Shares:	

2. <u>Exercise of Option</u>. I hereby elect to exercise the Option to purchase the following number of Shares:

Exercise Price per Share:

\$

	Total Shares Purchased:	
	Total Exercise Price (Total Shares X Price per Share)	\$
3. Agreement:	<u>Payments</u> . I enclose payment in full of the total exercise price for the Shares in the follow	ving form(s), as authorized by my Option
	□ Cash:	\$
	☐ Check:	\$
	☐ Tender of Company Stock:	Contact Plan Administrator
	☐ Cashless exercise (same-day sale)	Contact Plan Administrator
	<u><b>Tax Withholding.</b></u> Subject to the Option Agreement, I authorize payroll withholding and of and foreign tax withholding obligations of the Company, if any, in connection with the Option payment in full of my withholding taxes, if any, as follows:	1 1

	(Contact Plan Adn	ninistrator for amount of tax due.)
	□ Cash:	\$
	☐ Check:	\$
	☐ Tender of Company Stock:	Contact Plan Administrator
	☐ Cashless Exercise (same-day sale)	Contact Plan Administrator
5.	Optionee Information.	
	My address is:	
	My Social Security Number is:	
6. Officer of the Co Option Grant.		on is an Incentive Stock Option, I agree that I will promptly notify the Chief Financial ar from the date I exercise all or part of the Option or within two (2) years of the Date of
		acquired in accordance with and subject to the terms, provisions and conditions of the eement shall inure to the benefit of and be binding upon the my heirs, executors,
	rstand that I am purchasing the Shares pursuant to the toad and understand.	erms of the Plan, the Notice and my Option Agreement, copies of which I have received
		Very truly yours,
		(Signature)
Receipt of the ab	ove is hereby acknowledged.	
AXT, INC.		
By:		
itle:		
Dated:		
		2
		AXT, INC.

# AXT, INC. 2007 EQUITY INCENTIVE PLAN JOINT ESCROW INSTRUCTIONS (Restricted Stock Award)

These Joint Escrow Instructions are entered into as of

, 200 .

# **RECITALS**

AXT, Inc., a Delaware corporation (the "*Company*"), and (the "*Participant*") desire to appoint the Secretary of the Company as their agent (the "*Agent*") with respect to certain certificate(s) evidencing shares of the Company's common stock (the "*Stock*") acquired pursuant to the Notice of Grant of Restricted Stock and Restricted Stock Agreement attached hereto as <a href="Exhibit A"><u>Exhibit A</u></a> (collectively the "*Agreement*").

# ESCROW INSTRUCTIONS

The Company and the Participant hereby authorize and direct the Agent to hold the documents and certificate(s) delivered to the Agent pursuant to these Escrow Instructions and to take the following actions with respect thereto, and the Company and the Participant hereby agree as follows:

(a) The Participant hereby delivers and/or agrees to deliver to the Agent the Participant's certificate(s) evidencing the Stock and an Assignment

Separate From Certificate executed in blank. The Participant irrevocably authorizes the Company to deposit with the Agent any certificate(s) evidencing shares of the Company's common stock acquired by the Participant pursuant to the Agreement which the Company may from time to time issue to the Participant during the term of these Escrow Instructions.

- (b) The provisions of these Escrow Instructions shall apply for so long as the Stock is subject to the Company Reacquisition Right set forth in the Agreement (the "*Reacquisition Right*"). Upon termination of the Company's Reacquisition Right, this escrow shall terminate.
- (c) In the event the Company shall elect to exercise any of the Reacquisition Right, the Company shall give to the Participant and the Agent a written notice (the "*Reacquisition Notice*") which states (a) the terms and conditions of such reacquisition, determined in accordance with the provisions of the Agreement, and (b) a time and date for a closing hereunder at the principal office of the Company. The Participant and the Company hereby irrevocably authorize and direct the Agent to close the transaction contemplated by the Reacquisition Notice in accordance with the terms of the Reacquisition Notice. At the closing, the Agent shall deliver the certificate(s) evidencing the shares of Stock to be transferred to the Company. The balance of any such shares of Stock shall be retained by the Agent and held in accordance with these Escrow Instructions.
- (d) The Company may at any time release some or all of the Stock from the provisions of these Escrow Instructions by giving written notice to the Participant and the Agent directing delivery to the Participant of the shares of Stock to be released. The Participant may

request that the Company direct the Agent to release from the provisions of these Escrow Instructions the shares of Stock which are no longer subject to the Company's Reacquisition Right, and the Company shall give to the Participant and the Agent written notice directing delivery to the Participant of the shares of Stock to be released. The Agent shall use its best efforts to cause the certificate(s) evidencing the Stock held by the Agent to be delivered to the Participant pursuant to such notice within ten (10) days from receipt of such notice.

- (e) To facilitate the exercise of any of the Reacquisition Right, and the performance of these instructions, the Participant does hereby constitute and appoint the Agent as the Participant's attorney-in-fact and agent for the term of this escrow to execute with respect to such securities all stock certificates, stock assignments, or other instruments which shall be necessary or appropriate to make such securities negotiable and complete any transaction herein contemplated. The Participant understands that such appointment is coupled with an interest and is irrevocable. Subject to the provisions of these Escrow Instructions, the Participant shall exercise all rights and privileges of a stockholder of the Company while the Stock is held by the Agent; provided, however, the Participant may not sell, transfer, dispose of, or in any manner encumber any shares of the Stock while such shares of Stock are held by Agent hereunder.
- (f) If at the time of termination of this escrow, the Agent shall have in its possession any documents, securities, or other property belonging to the Participant, the Agent shall deliver all of same to the Participant and shall be discharged of all further obligations hereunder.
- (g) The Agent's duties hereunder may be altered, amended, modified, or revoked only by a writing signed by the Company and the Participant, and approved by the Agent.
- (h) The Agent shall not be personally liable for any act the Agent may do or omit to do hereunder as escrow agent, agent for the Company, or attorney in fact for the Participant while acting in good faith and in the exercise of the Agent's own good judgment, and any act done or omitted by the Agent pursuant to the advice of the Agent's own attorneys shall be conclusive evidence of such good faith.
- (i) The Agent is hereby expressly authorized to disregard any and all warnings by any of the parties hereto or by any other person, firm, corporation, or other entity, excepting only orders or process of courts of law, and is hereby expressly authorized to comply with and obey orders, judgments, or decrees of any court. In the event the Agent obeys or complies with any such order, judgment, or decree of any court, the Agent shall not be liable to any of the parties hereto or to any other person, firm, corporation, or other entity by reason of such compliance notwithstanding that any such order, judgment, or decree shall be subsequently reversed, modified, annulled, set aside, vacated, or found to have been entered without jurisdiction.
- (j) The Agent shall not be liable in any respect on account of the identity, authorities, or rights of the parties executing or delivering or purporting to execute or deliver any agreements or documents called for by the Agreement or any documents or papers deposited or called for hereunder.
- (k) The Agent shall not be liable for the barring of any rights under the statute of limitations with respect to these Escrow Instructions or any documents deposited with the Agent.

- (1) By signing these Escrow Instructions, the Agent becomes a party hereto only for the purpose of said Escrow Instructions. The Agent shall not be considered a party to the Agreement or to any documents or agreements called for by the Agreement.
- (m) The Agent may resign from its duties hereunder at any time upon written notice to the Company and the Participant and delivery of all documents and certificates held in this escrow to the successor escrow agent. If a successor escrow agent has not been appointed within thirty (30) days, the Agent may deliver all such documents and certificates to the Company, at which time, all further responsibilities and duties of the Agent shall cease.
- (n) If prior to the termination of these Escrow Instructions the Agent shall resign or otherwise cease to operate as escrow agent, a successor escrow agent shall be designated by the Board of Directors of the Company. The Board of Directors of the Company may, at any time, substitute another party in the Agent's place as escrow agent hereunder, and the Participant hereby expressly accepts such substitution.
- (o) All notices and other communications hereunder shall be in writing and shall be deemed given if delivered personally or mailed by registered or certified mail (return receipt requested) to the parties at the following addresses (or at such other address for a party as shall be specified by like notice):
  - (1) if to the Company, to:

AXT, Inc. 4281 Technology Drive Fremont, California 94538 Attn: Chief Financial Officer

- (2) if to the Participant, to the address set forth below the Participant's signature below.
- if to the Agent, to:

Corporate Secretary AXT, Inc. 4281 Technology Drive Fremont, California 94538

- (p) The provisions of these Escrow Instructions shall inure to the benefit of and be binding upon the parties hereto and their respective heirs, executors, administrators, successors and assigns.
- (q) These Escrow Instructions shall be governed, to the fullest extent possible, by the laws contained in the California Commercial Code, including any regulations or judicial interpretations with respect thereto. To the extent that any matter is not governed by the laws contained in the California Commercial Code, such matter shall be governed by the laws of the state of the Participant's residence as such laws are applied to agreements between residents of such state entered into and to be performed entirely within such state.

	e entire understanding of the Company and the Participant with respect to the s, understandings, representations, warranties, or covenants with respect to the
IN WITNESS WHEREOF, the Company and the Participant have	executed these Escrow Instructions as of the date first above written.
	AXT, INC.
	Ву:
	Title:
	PARTICIPANT:
	<del></del>
	Signature
ESCROW AGENT:	Address
Ву	_
	4

The terms and conditions of these Escrow Instructions, including all terms and conditions incorporated by reference herein, shall survive

the exercise of the option granted pursuant to the Agreement and shall continue in full force and effect thereafter.

# ASSIGNMENT SEPARATE FROM CERTIFICATE

FOR VALUE RECEIVED the undersigned does hereby sell, assign and transfer unto

undersigned's name on the books of appoint premises.	said corporation represented by Cert Attorney to transfer the	) shares of the Capital Stock of AXT, Inc tificate No. herewith and does hereby irrevocable e said stock on the books of said corporation with full power of s	ly constitute and
Dated:			
		Signature	
		Print Name	
		e. The purpose of this assignment is to enable the Company to exal signatures on the part of the Participant.	ercise its
(the " <b>Plan</b> ") of certain shares of Co		AXT, INC.  DF RESTRICTED STOCK AWARD  red an award (the "Award") pursuant to the AXT, Inc. 2007 Equ  XT. Inc. as follows:	nity Incentive Plan
Grant Number:	minon stock (tile "Shares") 01712	11, 110., 45 1011045.	
Date of Grant:			
Total Number of Shares	s:		
Initial Vesting Date:	The one-year anniversary	y of the Date of Grant.	
Vested Shares:	resulting fractional share	e Restricted Stock Agreement, the number of Vested Shares (disrect) as of any date is determined by multiplying the Total Number of ined as of such date as follows:	
			Vested Ratio
	Prior to Initial Vesting Da	ate	0%
	On Initial Vesting Date, such date	provided the Participant's Service has not terminated prior to	33%
	*	iversary of the Initial Vesting Date, provided the not terminated prior to such date	33%
and the Restricted Stock Agreement Restricted Stock Agreement, and rep	attached to and made a part of this do	ree that the Award is governed by this Grant Notice and by the procument. The Participant acknowledges receipt of a copy of the F and is familiar with the provisions of the Plan, this Grant Notice at terms and conditions.	Plan and the
AXT, INC.		PARTICIPANT	
By:			
Its:		Signature	
		Date	
Address		Address	

ATTACHMENTS: AXT, Inc. 2007 Equity Incentive Plan, Restricted Stock Agreement; Joint Escrow Instructions; Assignment Separate from

# AXT, INC.

# TIME SENSITIVE MATERIAL YOUR IMMEDIATE ATTENTION IS REQUIRED

TO:	[Employee Name]
FROM:	[Company Officer]
DATE:	
RE:	Section 83(b) Election in Connection with Your Receipt of a Restricted Stock Award
YOUR RESTRICTI	ED STOCK AWARD GRANT DATE:
SEC. 83(b) ELECTI	ON POSTMARK DEADLINE(1):
of your receipt of un	nt date above, you acquired unvested shares of the company's stock pursuant to a restricted stock award. The income tax consequences vested shares of stock and the subsequent vesting of those shares are quite complex, and we strongly urge you to consult with a tax or owledgeable regarding your financial circumstances and restricted stock award.
Service an election u must be filed with	ed in the attached memorandum prepared by our legal counsel, you may derive significant tax benefits by filing with the Internal Revenue nder Section 83(b) of the Internal Revenue Code (a "Section 83(b) Election"). However, if you wish to make a Section 83(b) Election, it the IRS no later than 30 days after the date on which you acquired your restricted stock. THEREFORE, YOUR PROMPT THIS MATTER IS REQUIRED.
	ew the attached memorandum. If you decide to file a Section 83(b) Election, a sample form of Section 83(b) Election is enclosed for your ver, as the taxpayer, you are solely responsible for the timely filing of your Section 83(b) Election. Please follow the filing instructions norandum.
other legal advice.	ned memorandum is intended only as a general guide. Neither the company nor our legal counsel is providing you with tax or We strongly recommend that you consult with your personal tax or financial advisor to determine whether filing a ion is appropriate for you.
Enclosures	
(1) The date 30 days	s after the date of grant of your restricted stock award. If the deadline falls on Saturday, Sunday or a legal holiday, the filing will be

timely if the U.S. mail postmark is on the next day that is not a Saturday, Sunday or a legal holiday.



#### **MEMORANDUM**

TO: AXT, Inc.

FROM: DLA Piper US LLP

DATE: June 12, 2007

RE: Election under Section 83(b) of the Internal Revenue Code upon Receipt of Unvested Shares of Stock

As counsel to AXT, Inc. (the "Company"), we have prepared this memorandum to assist you to alert participants who receive awards of restricted stock that are subject to the Company Reacquisition Right of the potential application of an election under Section 83(b) (a "Section 83(b) Election") of the Internal Revenue Code of 1986. A participant who wishes to make a Section 83(b) Election must file the election with the Internal Revenue Service (the "IRS") no later than thirty (30) days after the date on which the unvested shares were acquired. ACCORDINGLY, PROMPT ATTENTION TO THIS MATTER IS REQUIRED.

This information is intended to be a general summary of the issues involved for federal income tax purposes as of the date set forth above. A participant's particular circumstances may result in consequences different from those described. In addition, the application of state, local, and foreign tax consequences is beyond the scope of this memorandum. Participants are advised, therefore, to consult their own tax advisor regarding the tax consequences to the participant of the acquisition and vesting of shares of restricted stock and subsequent sale of the stock.

A participant who acquires unvested shares of stock ("Unvested Shares") is subject to the Company Reacquisition Right (the "Reacquisition Right") set forth in the participant's restricted stock agreement. The Reacquisition Right grants the Company the right to automatically reacquire without any monetary payment to the participant (i.e., the participant will forfeit) any shares remaining unvested on the participant's termination of service with the Company. By filing a Section 83(b) Election with the IRS no later than thirty (30) days after the acquisition of the Unvested Shares, the participant may change the amount of ordinary income recognized and the characterization of any gain recognized on a subsequent sale of the Unvested Shares.

1. <u>Section 83 and Treatment of Restricted Stock.</u> If a participant acquires, without payment of any purchase price, unvested shares of stock of his employer that is subject to a Reacquisition Right, then the fair market value of the stock on the date or dates the

Reacquisition Right lapses (i.e., when the shares vest) is includable in the gross income of the participant in the year such Reacquisition Right lapses.

To avoid the potential characterization of post-acquisition appreciation as ordinary income and to defer the payment of tax on such appreciation until the stock is sold, the participant may file a Section 83(b) Election with the IRS no later than 30 days after the date on which the restricted stock is transferred to the participant (i.e., the date on which the award is granted). The Section 83(b) Election details the terms of the transaction, and, by making the election, the participant agrees to report as ordinary income in the year of acquisition the excess, if any, of the fair market value of the Unvested Shares on the date the participant acquires them (without regard to the Reacquisition Right) over the purchase price, if any, actually paid for the Unvested Shares.

A Section 83(b) Election will result in immediate recognition of ordinary income equal to the fair market value of the Unvested Shares as of the date on which they are awarded to you. Although the Section 83(b) Election states what the participant believes to be the fair market value of the stock, neither the participant's nor the Company's determination of the stock's fair market value is binding on the taxing authorities, who might assert that the stock had a higher fair market value on the grant date than stated on the Section 83(b) Election. By filing a Section 83(b) Election, any gain recognized by the participant on the stock attributable to post-exercise appreciation will be treated as a capital gain and will only be taxed at such time as the participant sells the stock.

# 2. <u>Making the Section 83(b) Election</u>.

- (a) <u>Federal.</u> To make a Section 83(b) Election, the participant must file the election with the IRS Service Center where the participant files his or her Form 1040 return no later than thirty (30) days after the date on which the participant acquires Unvested Shares. A sample form of Section 83(b) Election is attached to this memorandum. To complete the form, the participant should:
  - Enter the participant's name, address and Social Security Number in Item 1.
  - Enter the number of Unvested Shares acquired in Item 2.
  - Enter the date and calendar year of the acquisition of Unvested Shares in Item 3.
  - Enter the total fair market value of the Unvested Shares as of the date of the award, the number of Unvested Shares acquired and their fair market value per share in Item 5.
  - Enter the total purchase price, if any, actually paid for the Unvested Shares the number of Unvested Shares purchased and the purchase price per share

in Item 6. If you did not pay cash consideration, then the amount paid will be zero.

Sign and date the form.

The participant should mail the fully completed, signed and dated original and one photocopy of the Section 83(b) Election to the IRS office where the participant files his or her federal income tax return. We recommend that the Section 83(b) Election be sent by certified mail, return receipt requested and that the letter transmitting the election request that the IRS acknowledge receipt of the election by signing and dating or received-stamping the enclosed photocopy of the Section 83(b) Election. A self-addressed, stamped envelope must be enclosed for return of the acknowledgment copy.

To be timely filed, the Section 83(b) Election must be postmarked by the U.S. Postal Service no later than 30 days after the date on which the participant acquired the Unvested Shares. This is an absolute deadline. There is no grace period, and no extension is available. If the deadline falls on Saturday, Sunday or a legal holiday, the filing will be timely if the Section 83(b) Election is postmarked on the next day that is not a Saturday, Sunday or a legal holiday.

If the participant files the Section 83(b) Election, he or she must send a photocopy of the election to the Company for its records. The participant should also retain a copy of the Section 83(b) Election.

Finally, the participant must file an additional copy of the section 83(b) Election with his or her federal income tax return for the taxable year in which the shares were purchased.

- (b) <u>State.</u> Participants should consult with their personal tax or financial advisor to determine the state and local tax consequences with respect to the acquisition of Unvested Shares.
- 3. <u>Consultation with Tax Advisors.</u> DLA Piper US LLP is legal counsel to the Company and not to any individual affiliated with the Company. This memorandum is intended only as a general guide. It must not be construed as providing tax or other legal advice. The tax consequences of restricted stock awards are complex and subject to change. In addition, the circumstances of a particular participant may result in some variation of the above-described rules, and the application of state, local, or foreign taxes not described in this memorandum may affect a participant's situation. Accordingly, participants are urged to consult with their own personal tax or financial advisor prior to acquiring any restricted stock and prior to the sale of any such shares.

# **SAMPLE**

Internal Revenue Service

[IRS Service Center where Form 1040 is Filed]

Re: Section 83(b) Election

Dear Sir or Madam:

The following information is submitted pursuant to section 1.83-2 of the Treasury Regulations in connection with this election by the undersigned under section 83(b) of the Internal Revenue Code of 1986, as amended (the "Code").

1.	The name, address and taxpayer identification number of the taxpayer are:	
	Name:	
	Address:	
		<u> </u>
	Social Security Number:	
2.	The following is a description of each item of property with respect to which the election is made:	
	shares of common stock of AXT, Inc. (the "Shares"), acquire	d from AXT, Inc. (the "Company").
3.	The property was transferred to the undersigned on:	
	Restricted stock grant date:	
	The taxable year for which the election is made is:	
	Calendar Year	
4.	The nature of the restriction to which the property is subject:	
	The Shares are subject to reacquisition by the Company upon the occurrence of certain e to a portion of the Shares based upon the continued performance of services by the taxpa	1 0 1

5.	The following is the fair market value at the time of transfer (determined without regard to any restriction other than a restriction which by its terms will never lapse) of each property with respect to which the election is made:				
		\$	(	Shares at \$	per share).
		The property was transf	Ferred to the taxpay	er pursuant to the grant	of a restricted stock award.
6.	The following is the amount paid for the property:				
		None.			
7.	A copy	of this election has been	furnished to the Co	ompany, the corporation	for which the services were performed by the undersigned.
Please acknowledge receipt of this election by date or received-stamping the enclosed copy of this letter and returning it to the undersigned. A self-addressed stamped envelope is provided for your convenience.					
Very truly yours,					
				Dat	te:
Enclosu cc: AX				2	

# SAMPLE

Date:
CERTIFIED MAIL RETURN RECEIPT REQUESTED
Internal Revenue Service
[IRS Service Center where Form 1040 is Filed]
Re: Section 83(b) Election Name of Taxpayer: SSN:
Dear Sir or Madam:
Enclosed please find an original and one copy of an election under section 83(b) of the Internal Revenue Code of 1986, as amended.
Please acknowledge receipt of the enclosed by date- or receive-stamping the enclosed copy of the election and returning it to the undersigned. A self-addressed stamped envelope is enclosed for your convenience.
Very truly yours,
Enclosures

# ACKNOWLEDGMENT OF RECEIPT OF SECTION 83(b) MATERIALS

The undersigned participant ("Participant") hereby acknowledges receipt of a sample form for making an election pursuant to section 83(b) of the Internal Revenue Code of 1986, as amended, and a memorandum regarding such election in connection with the Participant's receipt of a restricted stock award under the AXT, Inc. 2007 Equity Incentive Plan.		
Dated:	Signature	
	Name printed	



Corporate Office: 4281 Technology Drive Fremont, CA 94538 Ph: 510-438-4700 Fax: 510-353-0668 www.axt.com

October 30, 2009

Mr. Raymond Low

Dear Raymond:

It is my pleasure to offer you continuing employment with AXT, Inc. ("AXT"), in a new position on the following terms.

# 1. Employment and Duties

You will be employed by AXT as Chief Financial Officer. Your duties and responsibilities will include responsibility for AXT's accounting, tax, insurance, human resources, legal, facilities, and investor relations functions, as well as for the reports required of AXT as a public company and compliance with the Sarbanes-Oxley Act, and such other tasks as you may be assigned from time to time. You will devote your full time, ability, attention, energy, knowledge, skill, and productive employment time solely to performing your duties as an employee of AXT. You will comply with all of AXT's rules and policies. However, except as specifically described below, if there is any conflict between any such rule or policy and the terms of this letter, the latter will prevail.

# 2. Start Date

If you accept this offer, you will assume your new position on October 26, 2009.

# 3. Compensation

(a) <u>Base Salary</u>. In consideration of your services to AXT, you will receive a new base salary equal to Two Hundred Forty Thousand Dollars (\$ 240,000 00) per year, paid in United States dollars in equal biweekly installments, from which AXT will withhold and deduct all applicable taxes to the extent required by law. Your salary will be annually reviewed by the Company. You may be subject to adjustment based upon various factors including, but not limited to, your performance and the Company's profitability.

- (b) Stock Options. You will be granted an option to purchase one hundred thousand (100,000) shares of AXT's common stock pursuant to the terms of its currently effective stock option plan, the terms of which shall supersede any inconsistent term of this letter. The option will have an exercise price equal to the Market Closing Price of AXT's common stock on the date set out in Section 2, above. Shares subject to this grant shall vest over a four (4) year period according to the following schedule: 1) Twenty-Five percent (25%) of the option will vest upon the successful completion of your first year of employment under this agreement; 2) Beginning in your second year of employment under this agreement, the balance of the option will vest in equal monthly installments upon your successful completion of each of the next thirty-six (36) months employment. Additional grants may be made based on performance at the Company's discretion.
  - (c) <u>Annual Bonus</u>. You will be eligible to participate in bonus plans as approved for your position by AXT's Board of Directors.
- (d) <u>Business Expenses</u>. You will be entitled to reimbursement by AXT for such customary, ordinary, and necessary business expenses as are incurred by you in the performance of your duties and activities associated with promoting or doing AXT's business. All expenses as described in this paragraph will be reimbursed only upon presentation by you of such documentation as may be reasonably necessary to substantiate that all such expenses were incurred in the performance of your duties.
- (e) <u>Directors and Officers Insurance</u>. Directors and Officers Insurance is currently maintained by the Company and, to the extent that such insurance remains available to the Company upon terms acceptable to the Company, the Company will use its best commercial efforts to continue to maintain such insurance at such levels as the Company's Board of Directors may approve from time to time.
- (f) <u>Vacation and Sick Leave</u>. You will accrue vacation and sick leave pursuant to AXT's policies on the same terms as other, similarly situated employees, provided that at no time will you be permitted to have accrued more than thirty (30) days of vacation. At any time you accrue this amount of vacation, you will not earn additional vacation until you use vacation time so that your accrual drops below this thirty (30) day maximum. You agree to schedule your vacations at times that are approved by your direct supervisor.
- (g) <u>Benefits.</u> You will be eligible for health insurance, retirement, and other benefits on the same basis as other similarly situated employees of AXT.

# 4. Outside Activities

While employed by AXT, and unless otherwise agreed in writing, you will not:

1) Undertake any other form of employment or other activity that may negatively affect the performance of your duties as an employee of AXT; 2) Directly or indirectly, either as an employee, employer, consultant, agent, principal, partner, shareholder, corporate officer, director, or in any other capacity, engage or assist any third party in engaging in any business competitive with the business of AXT or any parent, subsidiary or affiliate. Following your

employment with AXT, you will not engage in unfair competition with AXT or any parent, subsidiary or affiliate, aid others in any unfair competition with AXT or any parent, subsidiary or affiliate, in any way breach the confidence that AXT or any parent, subsidiary or affiliate has placed in you.

# 5. Proprietary Rights and Confidentiality, Code of Business Conduct and Ethics, and Insider Trading Policy

You have signed AXT's Proprietary Information and Inventions Agreement, Code of Business Conduct and Ethics, and Insider Trading Policy, which remain in force as to you. Your trading in AXT stock will remain be subject to the restrictions of the Company's Insider Trading Policy.

# 6. Termination of Employment

Your employment with AXT can end in the following ways, among others:

- (a) <u>By Disability</u>. If, in the sole opinion of AXT's President, you are prevented from properly performing your duties by reason of any physical or mental incapacity for a period of more than ninety (90) days in the aggregate in any twelve-month period, then to the extent permitted by law, your employment with AXT shall terminate. AXT's total liability in the event of such disability termination shall be limited to payment of your salary and other earned compensation through the effective date of your disability termination.
- (b) <u>For Cause</u>. Your employment may be terminated by AXT under any one of the following circumstances, any of which shall be deemed, and shall be sufficient to constitute, termination "for cause":
  - (i) You commit any act of fraud, misappropriation, theft, dishonesty, or other act of moral turpitude;
  - (ii) You breach or neglect the duties you are required to perform under the terms of this Agreement.
  - (iii) You engage in willful misconduct in the performance of your duties hereunder, commit insubordination (in the sole, reasonable discretion of your supervisor or AXT's Board of Directors), or otherwise fail to perform your duties hereunder as directed by your supervisor or AXT's Board of Directors.
  - (iv) You are guilty of, convicted of, or plead guilty or *nolo contendre* to, a felony, crime of moral turpitude or other serious offense.

AXT's total liability to you in the event of termination of your employment under this section shall be limited to the payment of your salary and other earned compensation through the effective date of termination.

(c) <u>Without Cause.</u> AXT reserves the right to terminate you at any time, without cause or for any reason whatsoever upon written
notice to you. AXT's total liability to you in the event of termination of your employment under this section is limited to the payment of your salary and other
eared compensation through the effective date of termination in addition to any severance to which you may be entitled under AXT's severance pay plan or
policy. You hereby agree that AXT may dismiss you under this paragraph (c) without regard: (1) to any general or specific policies (whether oral or written)
of AXT relating to the employment or termination of its employees; or (ii) to any statements made to you, whether made orally or contained in any document
pertaining to your relationship with AXT.

- (d) <u>Mutual Consent</u>. Your employment will be terminated upon mutual written consent of AXT and you. AXT's total liability to you in the event of termination of employment under this subsection shall be limited to the payment of your salary and other earned compensation through the effective date of termination.
- (e) Your Resignation. You may terminate your employment by providing AXT with six (6) weeks' written notice of such termination. AXT's total liability to you in the event of termination of employment under this subsection will be limited to the payment of your salary and other earned compensation through the effective date of termination.
- (f) Change in Control. If a change in control of AXT takes place, and within twelve (12) months thereafter, you incur an involuntary separation from service (within the meaning of Treas. Reg. § 1.409A-1(n)), AXT's total liability to you will be limited to the payment of your salary and other earned compensation through the effective date of the involuntary separation from service plus severance in a gross amount equal to one (1) year of your then current annual salary, plus continuation of coverage in the AXT group health plan and acceleration of stock options as indicated below.
  - (i) Your entitlement to severance is conditioned upon your execution of a general release agreement, in a form determined by AXT. The severance will be paid, or begin to be paid, as soon as administratively feasible after your right, if any, to revoke the general release has expired. If you do not execute the release agreement within 60 days of separation from service or if you revoke the release agreement, you will not be entitled to the severance.
  - (iii) For purposes of this subsection, a change in control of AXT means a change in the ownership or effective control of AXT or a change in the ownership of a substantial portion of the assets of AXT, within the meaning of Treas. Reg. § 1.409A-3(i)(5).
  - (iv) For purposes of this subsection, a voluntary separation from service for good reason is treated as an involuntary separation from service. Good reason is deemed to exist if and only if the separation from service occurs within twelve (12) months following the initial existence of one or more of the following conditions arising without your consent:

- (A) A material diminution in your base compensation, other than as part of a general reduction in the base compensation of all similarly situated employees.
  - (B) A material diminution in your authority, duties or responsibilities.
- (C) A material diminution in the authority, duties or responsibilities of the supervisor to whom you are required to report, including a requirement that you report to a corporate officer or employee instead of reporting directly to the Board.
  - (D) A material diminution in the budget over which you retain authority.
  - (E) A material change in the geographic location at which you must perform services.
  - (F) Any other action or inaction that constitutes a material breach by AXT of this Agreement.
- (v) In addition, AXT will reimburse you for the premiums necessary for you to maintain coverage in the AXT group health plan for the period during which you would be entitled (or would, but for this Agreement be entitled) to continuation coverage under section 4980B of the Internal Revenue Code (COBRA).
- (vi) Any outstanding stock options that you may hold shall vest at the time your right, if any, to revoke the general release described above has expired. This vesting right is in addition to any vesting rights that are provided in your option agreement or agreements. The limit on your time to exercise shall continue to be tied to your termination of employment.
- 7. Offices Upon termination of employment for any reason whatsoever, you shall be deemed to have resigned from all offices and directorships then held with AXT.

# 8. Arbitration

(a) Arbitration Required. Any dispute, claim, or controversy arising out of or related to your employment with AXT or the termination of that employment shall be resolved exclusively through final and binding arbitration.. This agreement to arbitrate includes all state, federal and foreign statutory or common law claims, including but not limited to discrimination claims arising under the California Fair Employment and Housing Act, Title VII of the Civil Rights Act of 1964, the Americans with Disabilities Act, and the Age Discrimination in Employment Act, or under the California Labor Code. Any demand for arbitration must be made within one (1) year of the termination of employment, provided, however, that if a claim arose under a statute providing for a longer time to file a claim, that statute shall govern.

- (b) <u>Costs or Fees.</u> All administrative costs of the arbitration, such as arbitrator and court reporting fees, shall be divided equally between AXT and you, unless otherwise required by law. Each party shall bear its other costs of arbitration, including attorney's fees, provided, however, that the arbitrator(s) may award attorney's fees to the prevailing party under the provisions of any applicable law.
- (c) <u>Representation</u>. You may, but are not required to, have an attorney represent you in preparation for and during the arbitration. If you decide to use an attorney, you shall be solely responsible for the payment of attorney's fees and costs, subject to any statutory authority of the arbitrator to order reimbursement by AXT.
- (d) Arbitration Procedure. All disputes subject to arbitration under this Agreement shall be resolved by a single arbitrator selected by the parties, and judgment on the award rendered by the arbitrator(s) may be entered by any court having jurisdiction thereof. The arbitrator shall have the authority to make any award that would be made by a court, but the arbitrator shall not have the authority to amend, modify, supplement or change the terms and conditions of employment set forth in this letter or AXT's policies.
  - (e) <u>Location</u>. The location of the arbitration shall be Alameda County or San Francisco, California.
- (f) Waiver of Right to Jury Trial. You agree that if for any reason any dispute or controversy between you and AXT arising from or related to your employment or the termination of your employment is resolved in court rather than through arbitration, then, to the extent permitted by law, trial of that dispute will be to a judge sitting without a jury, and you specifically waive any right you may have to trial by jury of any such dispute or controversy.
  - (g) Survival. Your agreement to arbitrate and the terms of this Section will survive the termination of your employment with AXT.
- (h) Employee Acknowledgment. YOU UNDERSTAND THAT YOU ARE ELECTING TO RESOLVE ANY DISPUTE, CLAIM OR CONTROVERSY DESCRIBED IN SECTION 8(a), ABOVE, IN AN ARBITRAL FORUM RATHER THAN A JUDICIAL FORUM AND THAT YOU ARE GIVING UP THE RIGHT TO A JURY TRIAL OF ANY SUCH DISPUTE, CLAIM, OR CONTROVERSY.

#### 9. Modification

Any modification of the terms of this letter will be effective only if and to the extent such modification is in a writing and signed by you and by the President of AXT.

# 10. Assignment

In view of the personal nature of the services you will perform by AXT, you cannot assign or transfer any of your rights or obligations under this Agreement.

# 11. Severability

If any of the provisions (or any part of any provision) of this letter are found to be unenforceable, then the remaining provisions (or part(s) thereof) shall nonetheless remain in full force and effect.

# 12. Entire Agreement

The terms of this letter constitute the entire agreement between AXT and you pertaining to the subject matter hereof and supersede all prior or contemporaneous written or verbal agreements and understandings in connection with the subject matter hereof including, without limitation the employment agreement dated January 24, 2005.

#### 13. Section 409A of the Internal Revenue Code

- (a) This agreement is intended to conform to the requirements of section 409A of the Internal Revenue Code and the related regulations and other guidance. The provisions of this agreement shall be interpreted accordingly. All provisions of this areement relating to nonqualified deferred compensation subject to section 409A shall be deemed to incorporate, be subject and subordinate to, be modified by, be conditioned by, and interpreted to avoid the tax consequences of, section 409A, its pursuant regulations, and other authoritative guidance.
- (b) Notwithstanding any other provision of this agreement to the contrary, when section 409A applies, any payments and benefits to be made to you upon your termination of employment for any reason may only be made upon your "separation from service," as that term is defined by Treasury Regulation § 1.409A-1(h).. Where Section 409A applies, (i) each payment made under this agreement shall be treated as a separate payment; (ii) you may not, directly or indirectly, designate the calendar year of payment; and (iii) no acceleration or deferral of the time and no change in the form of payment of any nonqualified deferred compensation or any portion thereof shall be permitted.
- (c) The parties stipulate and agree that any promise of a payment or benefit, including the acceleration, accrual, or deferral of a payment or benefit, which triggers the tax consequences of section 409A shall be deemed not promised in the first instance by this agreement.

# 14. Governing Law

Your rights and obligations as an employee of AXT will be governed by the laws of the State of California without regard to the choice-of-law provisions thereof. In any action relating to your employment by AXT, including one to compel arbitration or to enforce an arbitration award under Section, AXT and you specifically consent to the jurisdiction of the federal and state courts located in Alameda County, California.

If you wish to accept this offer of employment, please sign in the space provided below. By signing below, you acknowledge that you have received no inducements or representations other than those contained in this letter that caused you to accept this offer of employment. We look forward to your continued contributions to AXT.	
	Very truly yours,
	Morris Young Chief Executive Officer
Offer Accepted: /s/ Raymond Low Raymond Low	Date: 10/30/2009



a X t Corporate Office: 4281 Technology Drive Fremont, CA 94538 Ph: 510-438-4700 Fax: 510-353-0668 www.axt.com

From: Morris Young

To: Davis Zhang

Re: New position

Date: October 30, 2009

I am pleased to inform you that the Board has appointed you to a new position, President, AXT China Operations, reporting to me. Your duties and responsibilities will include responsibility for AXT's joint venture operations, new joint venture development, other business development in China, such as mergers and acquisitions and initial public offerings, assisting me in managing our manufacturing operations in China, and such other tasks as you may be assigned from time to time.

Your new position is effective immediately. Your new salary will be Two Hundred Sixty Thousand Dollars (\$260,000.00) per year.

In addition, the Board has granted you an option to purchase Fifty Thousand (50,000) shares of AXT's common stock pursuant to the terms of its currently effective stock option plan, the terms of which shall supersede any inconsistent term of this letter. The option will have an exercise price equal to the Market Closing Price of AXT's common stock on October 26, 2009. Shares subject to this grant shall vest over a four (4) year period according to the following schedule: 1) Twenty-Five percent (25%) of the option will vest upon the successful completion of your first year's employment in your new position; 2) Beginning in your second year of employment in that position, the balance of the option will vest in equal monthly installments upon your successful completion of each of the next thirty-six (36) months of employment.

Except as modified above, the terms of your employment agreement dated January 10, 2006, and the amendment thereto dated July 26, 2007, remain in effect. I look forward to working with you in your new position.



Corporate Office: 4281 Technology Drive Fremont, CA 94538 Ph: 510-438-4700 Fax: 510-353-0668 www.axt.com

October 30, 2009

Mr. Robert G. Ochrym

Dear Bob:

It is my pleasure to offer you continuing employment with AXT, Inc. ("AXT"), in a new position on the following terms.

#### 1. Employment and Duties

You will be employed by AXT as Vice President, Business Development ,Strategic Sales and Services. Your duties and responsibilities will include assisting the CEO in developing sales and marketing strategies, negotiating major sales contracts, analyzing AXT's competition, identifying our major markets, benchmarking our sales prices, and making managing contracts with our sales agents and such other tasks as you may be assigned from time to time. You will devote your full time, ability, attention, energy, knowledge, skill, and productive employment time solely to performing your duties as an employee of AXT. You will comply with all of AXT's rules and policies. However, except as specifically described below, if there is any conflict between any such rule or policy and the terms of this letter, the latter will prevail.

#### 2. Start Date

If you accept this offer, you will assume your new position on October 26, 2009.

#### 3. Compensation

- (a) <u>Base Salary</u>. In consideration of your services to AXT, you will receive a new base salary equal to Two Hundred Thirty Thousand Dollars (\$ 230,000 00) per year, paid in United States dollars in equal biweekly installments, from which AXT will withhold and deduct all applicable taxes to the extent required by law. Your salary will be annually reviewed by the Company. You may be subject to adjustment based upon various factors including, but not limited to, your performance and the Company's profitability.
- (b) Stock Options. You will be granted an option to purchase Fifty Thousand (50,000) shares of AXT's common stock pursuant to the terms of its currently effective stock option plan, the terms of which shall supersede any inconsistent term of this letter. The option will have an exercise price equal to the Market Closing Price of AXT's common stock on the

date set out in Section 2, above. Shares subject to this grant shall vest over a four (4) year period according to the following schedule: 1) Twenty-Five percent (25%) of the option will vest upon the successful completion of your first year's employment under this agreement; 2) Beginning in your second year of employment under this agreement, the balance of the option will vest in equal monthly installments upon your successful completion of each of the next thirty-six (36) months employment. Additional grants may be made based on performance at the Company's discretion.

- (c) <u>Annual Bonus</u>. You will be eligible to participate in bonus plans as approved for your position by AXT's Board of Directors.
- (d) <u>Business Expenses</u>. You will be entitled to reimbursement by AXT for such customary, ordinary, and necessary business expenses as are incurred by you in the performance of your duties and activities associated with promoting or doing AXT's business. All expenses as described in this paragraph will be reimbursed only upon presentation by you of such documentation as may be reasonably necessary to substantiate that all such expenses were incurred in the performance of your duties.
- (e) <u>Directors and Officers Insurance</u>. Directors and Officers Insurance is currently maintained by the Company and, to the extent that such insurance remains available to the Company upon terms acceptable to the Company, the Company will use its best commercial efforts to continue to maintain such insurance at such levels as the Company's Board of Directors may approve from time to time.
- (f) <u>Vacation and Sick Leave</u>. You will accrue vacation and sick leave pursuant to AXT's policies on the same terms as other, similarly situated employees, provided that at no time will you be permitted to have accrued more than thirty (30) days of vacation. At any time you accrue this amount of vacation, you will not earn additional vacation until you use vacation time so that your accrual drops below this thirty (30) day maximum. You agree to schedule your vacations at times that are approved by your direct supervisor.
- (g) <u>Benefits.</u> You will be eligible for health insurance, retirement, and other benefits on the same basis as other similarly situated employees of AXT.

#### 4. Outside Activities

While employed by AXT, and unless otherwise agreed in writing, you will not:

1) Undertake any other form of employment or other activity that may negatively affect the performance of your duties as an employee of AXT; 2) Directly or indirectly, either as an employee, employer, consultant, agent, principal, partner, shareholder, corporate officer, director, or in any other capacity, engage or assist any third party in engaging in any business competitive with the business of AXT or any parent, subsidiary or affiliate. Following your employment with AXT, you will not engage in unfair competition with AXT or any parent, subsidiary or affiliate, aid others in any unfair competition with AXT or any parent, subsidiary or affiliate has placed in you.

## 5. Proprietary Rights and Confidentiality, Code of Business Conduct and Ethics, and Insider Trading Policy

You have signed AXT's Proprietary Information and Inventions Agreement, Code of Business Conduct and Ethics, and Insider Trading Policy, which remain in force as to you. Your trading in AXT stock will remain be subject to the restrictions of the Company's Insider Trading Policy.

## 6. Termination of Employment

Your employment with AXT can end in the following ways, among others:

- (a) <u>By Disability</u>. If, in the sole opinion of AXT's President, you are prevented from properly performing your duties by reason of any physical or mental incapacity for a period of more than ninety (90) days in the aggregate in any twelve-month period, then to the extent permitted by law, your employment with AXT shall terminate. AXT's total liability in the event of such disability termination shall be limited to payment of your salary and other earned compensation through the effective date of your disability termination.
- (b) For Cause. Your employment may be terminated by AXT under any one of the following circumstances, any of which shall be deemed, and shall be sufficient to constitute, termination "for cause":
  - (i) You commit any act of fraud, misappropriation, theft, dishonesty, or other act of moral turpitude;
  - (ii) You breach or neglect the duties you are required to perform under the terms of this Agreement.
  - (iii) You engage in willful misconduct in the performance of your duties hereunder, commit insubordination (in the sole, reasonable discretion of your supervisor or AXT's Board of Directors), or otherwise fail to perform your duties hereunder as directed by your supervisor or AXT's Board of Directors.
  - (iv) You are guilty of, convicted of, or plead guilty or *nolo contendre* to, a felony, crime of moral turpitude or other serious offense.

AXT's total liability to you in the event of termination of your employment under this section shall be limited to the payment of your salary and other earned compensation through the effective date of termination.

(c) <u>Without Cause.</u> AXT reserves the right to terminate you at any time, without cause or for any reason whatsoever upon written notice to you. AXT's total liability to you in the event of termination of your employment under this section is limited to the payment of your salary and other eared compensation through the effective date of termination and any

severance pay to which you may be entitled under any AXT severance pay plan or policy. You hereby agree that AXT may dismiss you under this paragraph (c) without regard: (1) to any general or specific policies (whether oral or written) of AXT relating to the employment or termination of its employees; or (ii) to any statements made to you, whether made orally or contained in any document pertaining to your relationship with AXT.

- (d) <u>Mutual Consent</u>. Your employment will be terminated upon mutual written consent of AXT and you. AXT's total liability to you in the event of termination of employment under this subsection shall be limited to the payment of your salary and other earned compensation through the effective date of termination.
- (e) Your Resignation. You may terminate your employment by providing AXT with six (6) weeks' written notice of such termination. AXT's total liability to you in the event of termination of employment under this subsection will be limited to the payment of your salary and other earned compensation through the effective date of termination.
- (f) Change in Control. If a change in control of AXT takes place, and within twelve (12) months thereafter, you incur an involuntary separation from service (within the meaning of Treas. Reg. § 1.409A-1(n)), AXT's total liability to you will be limited to the payment of your salary and other earned compensation through the effective date of the involuntary separation from service plus severance in a gross amount equal to one (1) year of your then current annual salary, plus continuation of coverage in the AXT group heatlh plan and acceleration of your stock options as indicated below.
  - (i) Your entitlement to severance is conditioned upon your execution of a general release agreement, in a form determined by AXT. The severance will be paid, or begin to be paid, as soon as administratively feasible after your right, if any, to revoke the general release has expired. If you do not execute the release agreement within 60 days of separation from service or if you revoke the release agreement, you will not be entitled to the severance.
  - (iii) For purposes of this subsection, a change in control of AXT means a change in the ownership or effective control of AXT or a change in the ownership of a substantial portion of the assets of AXT, within the meaning of Treas. Reg. § 1.409A-3(i)(5).
  - (iv) For purposes of this subsection, a voluntary separation from service for good reason is treated as an involuntary separation from service. Good reason is deemed to exist if and only if the separation from service occurs within twelve (12) months following the initial existence of one or more of the following conditions arising without your consent:
    - (A) A material diminution in your base compensation, other than as part of a general reduction in the base compensation of all similarly situated employees.

- (B) A material diminution in your authority, duties or responsibilities.
- (C) A material diminution in the authority, duties or responsibilities of the supervisor to whom you are required to report, including a requirement that you report to a corporate officer or employee instead of reporting directly to the Board.
  - (D) A material diminution in the budget over which you retain authority.
  - (E) A material change in the geographic location at which you must perform services.
  - (F) Any other action or inaction that constitutes a material breach by AXT of this Agreement.
- (v) In addition, AXT will reimburse you for the premiums necessary for you to maintain coverage in the AXT group health plan for the period during which you would be entitled (or would, but for this Agreement be entitled) to continuation coverage under section 4980B of the Internal Revenue Code (COBRA);
- (vi) Any outstanding stock options that you may hold shall vest at the time your right, if any, to revoke the general release described above has expired. This vesting right is in addition to any vesting rights that are provided in your option agreement or agreements. The limit on your time to exercise shall continue to be tied to your termination of employment.
- 7. Offices. Upon termination of employment for any reason whatsoever, you shall be deemed to have resigned from all offices and directorships then held with AXT.

#### 8. Arbitration

- (a) Arbitration Required. Any dispute, claim, or controversy arising out of or related to your employment with AXT or the termination of that employment shall be resolved exclusively through final and binding arbitration.. This agreement to arbitrate includes all state, federal and foreign statutory or common law claims, including but not limited to discrimination claims arising under the California Fair Employment and Housing Act, Title VII of the Civil Rights Act of 1964, the Americans with Disabilities Act, and the Age Discrimination in Employment Act, or under the California Labor Code. Any demand for arbitration must be made within one (1) year of the termination of employment, provided, however, that if a claim arose under a statute providing for a longer time to file a claim, that statute shall govern.
- (b) <u>Costs or Fees.</u> All administrative costs of the arbitration, such as arbitrator and court reporting fees, shall be divided equally between AXT and you, unless otherwise required by law. Each party shall bear its other costs of arbitration, including attorney's fees,

provided, however, that the arbitrator(s) may award attorney's fees to the prevailing party under the provisions of any applicable law.

- (c) Representation. You may, but are not required to, have an attorney represent you in preparation for and during the arbitration. If you decide to use an attorney, you shall be solely responsible for the payment of attorney's fees and costs, subject to any statutory authority of the arbitrator to order reimbursement by AXT.
- (d) Arbitration Procedure. All disputes subject to arbitration under this Agreement shall be resolved by a single arbitrator selected by the parties, and judgment on the award rendered by the arbitrator(s) may be entered by any court having jurisdiction thereof. The arbitrator shall have the authority to make any award that would be made by a court, but the arbitrator shall not have the authority to amend, modify, supplement or change the terms and conditions of employment set forth in this letter or AXT's policies.
  - (e) Location. The location of the arbitration shall be Alameda County or San Francisco, California.
- (f) Waiver of Right to Jury Trial. You agree that if for any reason any dispute or controversy between you and AXT arising from or related to your employment or the termination of your employment is resolved in court rather than through arbitration, then, to the extent permitted by law, trial of that dispute will be to a judge sitting without a jury, and you specifically waive any right you may have to trial by jury of any such dispute or controversy.
  - (g) Survival. Your agreement to arbitrate and the terms of this Section will survive the termination of your employment with AXT.
- (h) Employee Acknowledgment. YOU UNDERSTAND THAT YOU ARE ELECTING TO RESOLVE ANY DISPUTE, CLAIM OR CONTROVERSY DESCRIBED IN SECTION 8(a), ABOVE, IN AN ARBITRAL FORUM RATHER THAN A JUDICIAL FORUM AND THAT YOU ARE GIVING UP THE RIGHT TO A JURY TRIAL OF ANY SUCH DISPUTE, CLAIM, OR CONTROVERSY.

#### 9. Modification

Any modification of the terms of this letter will be effective only if and to the extent such modification is in a writing and signed by you and by the President of AXT.

#### 10. Assignment

In view of the personal nature of the services you will perform by AXT, you cannot assign or transfer any of your rights or obligations under this Agreement.

#### 11. Severability

If any of the provisions (or any part of any provision) of this letter are found to be unenforceable, then the remaining provisions (or part(s) thereof) shall nonetheless remain in full force and effect.

## 12. Entire Agreement

The terms of this letter constitute the entire agreement between AXT and you pertaining to the subject matter hereof and supersede all prior or contemporaneous written or verbal agreements and understandings in connection with the subject matter hereof including, without limitation the offer of employment dated May 20, 2005, and the amendment thereto dated July 26, 2007.

#### 13. Section 409A of the Internal Revenue Code

- (a) This agreement is intended to conform to the requirements of section 409A of the Internal Revenue Code and the related regulations and other guidance. The provisions of this agreement shall be interpreted accordingly. All provisions of this areement relating to nonqualified deferred compensation subject to section 409A shall be deemed to incorporate, be subject and subordinate to, be modified by, be conditioned by, and interpreted to avoid the tax consequences of, section 409A, its pursuant regulations, and other authoritative guidance.
- (b) Notwithstanding any other provision of this agreement to the contrary, when section 409A applies, any payments and benefits to be made to you upon your termination of employment for any reason may only be made upon your "separation from service," as that term is defined by Treasury Regulation § 1.409A-1(h).. Where Section 409A applies, (i) each payment made under this agreement shall be treated as a separate payment; (ii) you may not, directly or indirectly, designate the calendar year of payment; and (iii) no acceleration or deferral of the time and no change in the form of payment of any nonqualified deferred compensation or any portion thereof shall be permitted.
- (c) The parties stipulate and agree that any promise of a payment or benefit, including the acceleration, accrual, or deferral of a payment or benefit, which triggers the tax consequences of section 409A shall be deemed not promised in the first instance by this agreement.

## 14. Governing Law

Your rights and obligations as an employee of AXT will be governed by the laws of the State of California without regard to the choice-of-law provisions thereof. In any action relating to your employment by AXT, including one to compel arbitration or to enforce an arbitration award under Section, AXT and you specifically consent to the jurisdiction of the federal and state courts located in Alameda County, California.

If you wish to accept this offer of employment, please sign in the space provided below. By signing below, you acknowledge that you have received no inducements or representations other than those contained in this letter that caused you to accept this offer of employment. We look forward to your continued contributions to AXT.					
Very truly yours,					
		Morris Young Chief Executive Officer			
Offer Accepted:	/s/ Robert G. Ochrym	Date: 10/30/2009			
	Robert G. Ochrym				
		8			

#### AXT, INC.

## FISCAL 2010 EXECUTIVE INCENTIVE BONUS PLAN

The following are the terms of the 2010 Executive Bonus Plan approved by the Compensation Committee of the Board of Directors of AXT, Inc. (the "Company") on December 14, 2009 (the "Plan").

#### A. Purpose

- 1. The terms of the Plan have been established to attract, motivate, retain and reward the Company's executive officers and other officers of the Company for driving the Company to achieve specific corporate objectives.
- 2. The Plan provides for the payment of quarterly cash bonuses based upon Company financial targets and individual performance target objectives.

## B. Eligibility

1. Those eligible to participate in the Plan are the officers of the Company subject to Section 16 of the Securities Exchange Act of 1934, as amended and any other officers of the Company designated by the Compensation Committee (each, an " *Officer*" and collectively, the "*Officers*").

#### C. Determination of Bonus Amounts

- 1. The Compensation Committee has determined that each individual Officer will have an "*Individual Bonus Percentage*" and an "*Individual Target Bonus*" as defined below, which will vary depending on such Officer's position and responsibilities in the Company.
- 2. Bonuses payable will be determined based upon achievement of corporate financial targets (the "Corporate Targets") and individual targets established for each Officer (the "Individual Targets"). Achievement of the Corporate Targets will represent 80% of the total bonus, and achievement of the Individual Targets will represent 20% of the total bonus. The Corporate Targets shall be comprised of four financial targets: (1) total revenue ("Total Revenue Target"), (2) gross profit ("Gross Profit Target"), (3) operating expense ("Operating Expense Target") and (4) net income ("Net Income Target"). The actual quarterly Corporate Targets are set forth in the operating plan for the year ending December 31, 2010, and approved by the Board of Directors (the "2010 Operating Plan").
- 3. The Corporate Targets are weighted 10% for each of the Total Revenue Target, Gross Profit Target and Operating Expense Target, and 50% for the Net Income Target, for a total of 80% of the total bonus. The Individual Bonus Earned (as defined below) for each quarter will depend on the "Corporate Target Achievement Multiplier" which shall equal the sum of: (a) actual total revenue for such quarter divided by the Total Revenue Target for the quarter multiplied by 0.1; (b) actual gross profit for such quarter divided by the Gross Profit Target for the quarter multiplied by 0.1; (c) actual operating expense for such quarter divided by Operating Expense Target multiplied by 0.1; and (d) actual net income for such quarter divided by the Net Income Target multiplied by 0.5 (subject

to Section 6 below).

- 4. The determination of the quarterly bonus based on the achievement of the Total Revenue Target, Gross Profit Target and Operating Expense Target shall be subject to the following:
  - The percentage of the bonus resulting from the achievement of the Total Revenue, Gross Profit Target and Operating Expense Target ranges from 80% to 120%.
  - No portion of the quarterly bonus with respect to such Corporate Target will be paid if the achievement of such Corporate Target is less than 90% of the 2010 Operating Plan amount for such Corporate Target.
  - At 90% achievement of the 2010 Operating Plan for such Corporate Target, 80% of the Quarterly Individual Target Bonus with respect to such Corporate Target shall be payable.
  - At 120% achievement of the 2010 Operating Plan for such Corporate Target, 100% of the Quarterly Individual Target Bonus with respect to such Corporate Target shall be payable.
  - At 150% achievement or greater of the 2010 Operating Plan for such Corporate Target, 120% of the Quarterly Individual Target Bonus with respect to such Corporate Target shall be payable. This will be the maximum amount payable for each such Corporate Target.
  - Accordingly, for each 1.5% increase in the performance for each Corporate Target against the 2010 Operating Plan over the minimum 90% threshold, the bonus will increase by 1% until a maximum bonus equal to 120% of the Quarterly Individual Target Bonus relating to such Corporate Target is earned.
  - The parameters described above are summarized in the following table:

#### Total Revenue, Gross Profit, Operating Expense

If achieve	<90%	90%	100%	120%	150%
Bonus	0%	80%	86.67%	100%	120%

- 4. The determination of the quarterly bonus based on the achievement of the Net Income Target shall be subject to the following:
- The quarterly bonus based on the achievement of the Net Income Target shall be 0% of the Quarterly Individual Target Bonus (with respect to Net Income) when actual Net Income is less than 70% of the budgeted Net Income for such quarter under the 2010 Operating Plan.
- The quarterly bonus based on the achievement of the Net Income Target shall be

100% of the Quarterly Individual Target Bonus (with respect to Net Income) when actual Net Income is 100% of the budgeted Net Income for such quarter under the 2010 Operating Plan.

- For each percentage improvement in the actual Net Income for the quarter over the minimum 70% threshold, the percentage of the Quarterly Individual Target Bonus payable will increase by 1% up to a maximum total bonus payable of 120% of the Quarterly Individual Target Bonus (relating to Net Income) when actual Net Income is 120% or greater than the budgeted Net Income for such quarter set forth in the 2010 Operating Plan.
- The parameters described above are summarized in the following table:

	Net Income	Net Income		
If achieve	<70%	70%	100%	120%
Ronus	00/-	70%	100%	120%

- 5. The determination of the quarterly bonus shall also be subject to the following:
- In the event that actual Net Income is negative for any particular quarter, no bonus shall be payable for such quarter.
- In no event shall the achievement of any individual Corporate Target represent more than 120% of such Corporate Target for such quarter. This means that the achievement of each of the Total Revenue Target, Gross Profit Target and Operating Expense Target shall not result in the payment of a bonus relating to such Corporate Target exceeding 12% of the Quarterly Individual Bonus Target in any quarter. The Individual Targets shall not represent more than 20% of the Individual Bonus Earned by any Officer in any quarter. Therefore, the maximum total quarterly bonus earned by any Officer in any quarter is 116% of the Quarterly Individual Target Bonus (the sum of 12% 12% 12% 60% and 20%).
- 6. Achievement of the Individual Targets, representing 20% of the Plan, shall be determined each quarter by the Chief Executive Officer for all Officers other than the Chief Executive Officer, pursuant to objectives established by the Chief Executive Officer for each such Officer. Achievement of the Individual Targets by the Chief Executive Officer shall be determined each quarter by the Compensation Committee, based upon objectives established by the Compensation Committee each quarter for the Chief Executive Officer.

## D. Individual Target Percentages

1. "Individual Bonus Percentage" means the percentage of a respective Officer's base salary that is targeted as a bonus payment under the Plan assuming exactly one hundred percent achievement by the Company of each of the Corporate Targets and Individual Targets (as defined below). The Individual Bonus Percentage for each Officer is

set as a percentage of base salary and varies based upon the Officer's position and responsibilities. The Individual Bonus Percentage for each Officer under the Plan is as follows:

Name	Target Bonus
Morris S. Young	60
Raymond Low	40
Davis Zhang	40
Robert Ochrym	40
John Cerilli	32
Hani Badawi	23

2. "Individual Target Bonus" for each fiscal year means the amount equal to a respective Officer's base salary multiplied by such Officer's Individual Bonus Percentage. The "Quarterly Individual Target Bonus" shall be the Individual Target Bonus divided by four. The "Individual Bonus Earned" means the amount equal to Individual Target Bonus multiplied by the Corporate Target Achievement Multiplier.

## E. Plan Changes

- 1. The Board or the Compensation Committee may modify the financial performance goals at any time based on changes in business conditions during the year and may grant bonuses to Officers even if the financial performance goals are not met. In its discretion, the Compensation Committee may, either at the time it grants an award under the Plan or at any time thereafter, provide for the adjustment of the award formula applicable to an award granted to any participant under the Plan to reflect such participant's individual performance in his or her position with the Company or such other factors as the Compensation Committee may determine. Notwithstanding the attainment of any performance goal under the Plan, the Compensation Committee shall have the discretion, on the basis of such criteria as it may establish, to reduce the amount of or to eliminate any final award that would otherwise be paid, and retains the absolute discretion to amend, modify or terminate the Plan at any time.
- 2. Nothing in this Plan will interfere with or limit in any way the right of the Company or the right of any individual to terminate the employment relationship at any time, with or without cause.

## CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-143366, 333-38858 and 333-67297) of AXT, Inc. of our reports dated March 19, 2010 relating to the consolidated financial statements, which appear in this Form 10-K.

/s/ Burr Pilger Mayer, Inc.

San Jose, California March 19, 2010

## CERTIFICATION PURSUANT TO 18 U.S.C. RULE 13a-14(a)/15d-14(a) AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

## I, Morris S. Young, certify that:

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

March 22, 2010 /s/ MORRIS S. YOUNG

Morris S. Young
Chief Executive Officer
(Principal Executive Officer)

## CERTIFICATION PURSUANT TO 18 U.S.C. RULE 13a-14(a)/15d-14(a) AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

## I, Raymond A. Low, certify that:

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

March 22, 2010 /s/ RAYMOND A. LOW


# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of AXT, Inc. (the "Company") on Form 10-K for the year ending December 31, 2009 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) of the Securities Exchange Act of 1934 (15 U.S.C. 78m); and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 22, 2010 By: /s/ MORRIS S. YOUNG

Morris S. Young

Chief Executive Officer

(Principal Executive Officer)

# CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report of AXT, Inc. (the "Company") on Form 10-K for the year ending December 31, 2009 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned hereby certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to the best of my knowledge:

- (1) The Report fully complies with the requirements of section 13(a) of the Securities Exchange Act of 1934 (15 U.S.C. 78m); and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: March 22, 2010 By: /s/ RAYMOND A. LOW

Raymond A. Low
Chief Financial Officer and
Corporate Secretary
(Principal Financial Officer and
Principal Accounting Officer)