

REGISTRATION NO. 333-89710

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

AMENDMENT NO. 1

TO

FORM S-3
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

ASPEN TECHNOLOGY, INC.
(Exact name of registrant as specified in its charter)

DELAWARE
(State or other jurisdiction of incorporation or organization)

04-2739697
(I.R.S. Employer Identification Number)

TEN CANAL PARK
CAMBRIDGE, MASSACHUSETTS 02141
(617) 949-1000
(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

LAWRENCE B. EVANS
CHAIRMAN OF THE BOARD, PRESIDENT AND CHIEF EXECUTIVE OFFICER
ASPEN TECHNOLOGY, INC.
TEN CANAL PARK
CAMBRIDGE, MASSACHUSETTS 02141
(617) 949-1000
(Name, address, including zip code, and telephone number, including area code, of agent for service)

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APPROXIMATE DATE OF COMMENCEMENT OF PROPOSED SALE TO THE PUBLIC: As soon as practicable after this Registration Statement becomes effective.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. []

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. [X]

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

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

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

THE REGISTRANT HEREBY AMENDS THIS REGISTRATION STATEMENT ON SUCH DATE OR DATES AS MAY BE NECESSARY TO DELAY ITS EFFECTIVE DATE UNTIL THE REGISTRANT SHALL FILE A FURTHER AMENDMENT WHICH SPECIFICALLY STATES THAT THIS REGISTRATION STATEMENT SHALL THEREAFTER BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8(a) OF THE SECURITIES ACT OF 1933 OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(a), SHALL DETERMINE.

THE INFORMATION IN THIS PROSPECTUS IS NOT COMPLETE AND MAY BE CHANGED. THE SELLING STOCKHOLDER MAY NOT SELL THESE SECURITIES UNTIL THE REGISTRATION STATEMENT FILED WITH THE SECURITIES AND EXCHANGE COMMISSION IS EFFECTIVE. THIS PROSPECTUS IS NOT AN OFFER TO SELL THESE SECURITIES, AND THE SELLING STOCKHOLDER IS NOT SOLICITING OFFERS TO BUY THESE SECURITIES, IN ANY JURISDICTION WHERE THE OFFER OR SALE IS NOT PERMITTED.

SUBJECT TO COMPLETION, DATED JULY 3, 2002

PROSPECTUS

1,641,672 SHARES
ASPEN TECHNOLOGY, INC.
COMMON STOCK

This prospectus relates to shares of common stock that may be offered and sold at various times by Accenture LLP. The offering is not being underwritten. We will not receive any proceeds from the sale of the shares.

Accenture LLP, or its pledgees, donees, transferees or other successors-in-interest, may offer the shares from time to time through public or private transactions at prevailing market prices, at prices related to prevailing market prices or at privately negotiated prices.

Concurrently with this offering, we are registering for resale 13,776,392 shares of our common stock held by several existing stockholders other than Accenture LLP. These shares will be offered pursuant to a separate prospectus and may be offered from time to time through public or private transactions at prevailing market prices, at prices related to prevailing market prices or at privately negotiated prices. We will not receive any of the proceeds of the sale of these shares.

Our common stock is traded on the Nasdaq National Market under the symbol "AZPN."

INVESTING IN OUR COMMON STOCK INVOLVES A HIGH DEGREE OF RISK. SEE "RISK FACTORS" BEGINNING ON PAGE 2.

THE SECURITIES AND EXCHANGE COMMISSION AND STATE SECURITIES REGULATORS HAVE NOT APPROVED OR DISAPPROVED THESE SECURITIES, OR DETERMINED IF THIS PROSPECTUS IS TRUTHFUL OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is _____, 2002.

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We have not authorized anyone to provide you with information different from that contained or incorporated by reference in this prospectus. Accenture LLP is offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted.

PROSPECTUS SUMMARY

This summary highlights important features of this offering and the information included or incorporated by reference in this prospectus. This summary does not contain all of the information that you should consider before investing in our common stock. You should read the entire prospectus carefully, especially the risks of investing in our common stock discussed under "Risk Factors."

ASPEN TECHNOLOGY

OUR BUSINESS..... We are a global provider of intelligent decision-support and e-business solutions to the process industries. Our decision-support software and service solutions enable customers to automate, integrate and optimize complex engineering, manufacturing and supply chain functions. Customers use our e-business solutions to automate and synchronize collaborations with suppliers, customers and other trading partners over the Internet. Customers use our solutions to optimize manufacturing performance at the individual plant level, across multiple plants and throughout the extended supply chain. These solutions enable customers to increase competitiveness and profitability by improving manufacturing efficiency, responsiveness and product quality.

OUR ADDRESS..... Our principal executive offices are located at Ten Canal Park, Cambridge, Massachusetts 02141. Our telephone number is (617) 949-1000. Our website is located at www.aspentech.com. Information contained in our website is not a part of this prospectus.

THE OFFERING

COMMON STOCK OFFERED..... All of the shares offered by this prospectus are being sold by Accenture LLP or its pledgees, donees, transferees or other successors-in-interest.

USE OF PROCEEDS..... We will not receive any proceeds from the sale of shares in this offering.

"ASPENTECH" and "PETROVANTAGE" are our trademarks. This prospectus also contains trademarks, service marks and trade names of other companies.

RISK FACTORS

Investing in our common stock involves a high degree of risk. You should consider the risks and uncertainties described below carefully before purchasing our common stock. The risks and uncertainties described below are not the only ones facing our company. Additional risks and uncertainties may also impair our business operations. If any of the following risks actually occur, our business, financial condition or results of operations would likely suffer. In that case, the trading price of our common stock could fall, and you may lose all or part of the money you paid to buy our common stock.

OUR LENGTHY SALES CYCLE MAKES IT DIFFICULT TO PREDICT QUARTERLY REVENUE LEVELS AND OPERATING RESULTS.

Because license fees for our software products are substantial and the decision to purchase our products typically involves members of our customers' senior management, the sales process for our solutions is lengthy and can exceed one year. Accordingly, the timing of our software revenues is difficult to predict, and the delay of an order could cause our quarterly revenues to fall substantially below expectations. Moreover, to the extent that we succeed in shifting customer purchases away from individual software solutions and toward more costly integrated suites of software and services, our sales cycle may lengthen, which could increase the likelihood of delays and cause the effect of a delay to become more pronounced. We have limited experience in forecasting the timing of sales of our integrated suites of software and services. Delays in sales could cause significant shortfalls in our revenues and operating results for any particular period.

FLUCTUATIONS IN OUR QUARTERLY REVENUES, OPERATING RESULTS AND CASH FLOW MAY CAUSE THE MARKET PRICE OF OUR COMMON STOCK TO FALL.

Our revenues, operating results and cash flow have fluctuated in the past and may fluctuate significantly in the future as a result of a variety of factors, many of which are outside of our control, including:

- our customers' purchasing patterns;
- the length of our sales cycle;
- changes in the mix of our license revenues and service revenues;
- the timing of introductions of new solutions and enhancements by us and our competitors;
- seasonal weakness in the first quarter of each fiscal year, primarily caused by a slowdown in business in some of our international markets;
- the timing of our investments in new product development;
- changes in our operating expenses; and
- fluctuating economic conditions, particularly as they affect companies in the chemicals, petrochemicals and petroleum industries.

We ship software products within a short period after receipt of an order and typically do not have a material backlog of unfilled orders for software products. Consequently, revenues from software licenses in any quarter are substantially dependent on orders booked and shipped in that quarter. Historically, a majority of each quarter's revenues from software licenses has come from license agreements that have been entered into in the final weeks of the quarter. Therefore, even a short delay in the consummation of an agreement may cause our revenues to fall below public expectations for that quarter.

Since our expense levels are based in part on anticipated revenues, we may be unable to adjust spending quickly enough to compensate for any revenue shortfall and any revenue shortfall would likely have a disproportionately adverse effect on our operating results. We expect that these factors will continue to affect our operating results for the foreseeable future. Because of the foregoing factors, we believe that

period-to-period comparisons of our operating results are not necessarily meaningful and should not be relied upon as indications of future performance.

If, due to one or more of the foregoing factors or an unanticipated cause, our operating results fail to meet the expectations of public market analysts and investors in a future quarter, the market price of our common stock would likely decline.

BECAUSE WE DERIVE A MAJORITY OF OUR TOTAL REVENUES FROM CUSTOMERS IN THE CYCLICAL CHEMICALS, PETROCHEMICALS AND PETROLEUM INDUSTRIES, OUR OPERATING RESULTS MAY SUFFER IF THESE INDUSTRIES EXPERIENCE AN ECONOMIC DOWNTURN.

We derive a majority of our total revenues from companies in the chemicals, petrochemicals and petroleum industries. Accordingly, our future success depends upon the continued demand for manufacturing optimization software and services by companies in these process manufacturing industries. The chemicals, petrochemicals and petroleum industries are highly cyclical. In the past, worldwide economic downturns and pricing pressures experienced by chemical, petrochemical and petroleum companies have led to consolidations and reorganizations. These downturns, pricing pressures and restructurings have caused delays and reductions in capital and operating expenditures by many of these companies. These delays and reductions have reduced demand for products and services like ours. A recurrence of these industry patterns, as well as general domestic and foreign economic conditions and other factors that reduce spending by companies in these industries, could harm our operating results in the future.

IF WE DO NOT COMPETE SUCCESSFULLY, WE MAY LOSE MARKET SHARE.

Our markets are highly competitive. Our asset optimization software competes with products of businesses such as Simulation Sciences, a division of Invensys. Our value chain planning software competes with products of companies such as i2 Technologies, Manugistics and SAP. Our value chain execution competes with products of companies such as Honeywell's Hi-Spec division, Invensys and SAP. We also face competition in all three areas from large companies in the process industries that have developed their own proprietary software solutions.

Some of our current competitors have significantly greater financial, marketing and other resources than we have. In addition, many of our current competitors have established, and may in the future continue to establish, cooperative relationships with third parties to improve their product offerings and to increase the availability of their products to the marketplace. The entry of new competitors or alliances into our market could reduce our market share, require us to lower our prices, or both. Many of these factors are outside our control, and we may not be able to maintain or enhance our competitive position against current and future competitors.

IF WE FAIL TO INTEGRATE THE OPERATIONS OF THE COMPANIES WE ACQUIRE, WE MAY NOT REALIZE THE ANTICIPATED BENEFITS AND OUR OPERATING COSTS COULD INCREASE.

We intend to continue to pursue strategic acquisitions that will provide us with complementary products, services and technologies and with additional personnel. The identification and pursuit of these acquisition opportunities and the integration of acquired personnel, products, technologies and businesses require a significant amount of management time and skill. There can be no assurance that we will identify additional suitable acquisition candidates, consummate any acquisition on acceptable terms or successfully integrate any acquired business into our operations. Additionally, in light of the consolidation trend in our industry, we expect to face competition for acquisition opportunities, which may substantially increase the cost of any potential acquisition.

We have experienced in the past, and may experience again in the future, problems integrating the operations of a newly acquired company with our own operations. Acquisitions also expose us to potential risks, including diversion of management's attention, failure to retain key acquired personnel, assumption of legal or other liabilities and contingencies, and the amortization of goodwill and other acquired intangible

assets. Moreover, customer dissatisfaction with, or problems caused by, the performance of any acquired products or technologies could hurt our reputation.

In particular, on May 31, 2002, we acquired Hyprotech Ltd. and related subsidiaries from AEA Technology plc for approximately L67.5 million in cash. The Hyprotech business operates globally and is the second largest acquisition we have made. The integration of the personnel, products and technologies of Hyprotech will require significant management time and skill, and our inability to complete the integration effectively and efficiently could cause our operating results to suffer.

We have funded the Hyprotech acquisition substantially from the proceeds of convertible preferred stock and common stock financings completed in 2002. We may issue additional equity securities or incur long-term indebtedness to finance future acquisitions. The issuance of equity securities could result in dilution to existing stockholders, while the use of cash reserves or significant debt financing could reduce our liquidity and weaken our financial condition.

IF WE DO NOT CONTINUE TO MAKE THE TECHNOLOGICAL ADVANCES REQUIRED BY THE MARKETPLACE, OUR BUSINESS COULD BE SERIOUSLY HARMED.

Enterprises are requiring their application software vendors to provide greater levels of functionality and broader product offerings. Moreover, competitors continue to make rapid technological advances in computer hardware and software technology and frequently introduce new products, services and enhancements. We must continue to enhance our current product line and develop and introduce new products and services that keep pace with the technological developments of our competitors. Our business and operating results could suffer if we cannot successfully respond to the technological advances of others or if our new products or product enhancements and services do not achieve market acceptance.

We must also satisfy increasingly sophisticated customer requirements. Under our business plan, we are investing significantly in the development of new business process products that are intended to anticipate and meet the emerging needs of our target market. We are focusing significantly on development of these products, which means we will not invest as substantially in the continued enhancement of our current products. We cannot assure you that our new product development will result in products that will meet market needs and achieve market acceptance.

Moreover, our product development for the foreseeable future is expected to be conducted substantially through co-development arrangements with Accenture LLP that we entered into in February 2002. Our previous development activities have been conducted primarily by our employees and consultants, and we have no previous experience in co-developing products with Accenture LLP. Our business and operating results will be seriously harmed if this co-development arrangement does not result in our being able to deliver timely products sought by companies in the process industries.

IF WE ARE UNABLE TO MARKET OUR PRODUCTS SUCCESSFULLY TO SENIOR EXECUTIVES OF POTENTIAL CUSTOMERS, OUR REVENUE GROWTH MAY BE LIMITED.

In recent periods, we have focused increasingly on selling the strategic value of our technology to the highest executive levels of customer organizations, typically the chief executive officer, chief financial officer or chief information officer. We have limited experience in selling and marketing at these levels. If we are not successful at selling and marketing to senior executives, our revenue growth and operating results could suffer.

IF WE ARE UNABLE TO DEVELOP RELATIONSHIPS WITH SYSTEMS INTEGRATORS AND OTHER STRATEGIC PARTNERS, OUR REVENUE GROWTH MAY BE HARMED.

One element of our growth strategy is to increase the number of third-party implementation partners who market and integrate our products. If we do not adequately train a sufficient number of systems integrator partners, or if potential partners focus their efforts on integrating or co-selling competing products to the process industries, our future revenue growth could be limited and our operating results

could be harmed. If our partners fail to implement our solutions for our customers properly, the reputations of our solutions and our company could be harmed and we might be subject to claims by our customers. We intend to continue to establish partnerships with technology companies to accelerate the development and marketing of our solutions. To the extent that we are unsuccessful in maintaining our existing relationships and developing new relationships, our revenue growth may be harmed.

WE MAY REQUIRE ADDITIONAL CAPITAL.

We may need to raise additional capital in order to fund the continued development and marketing of our solutions. We expect our current cash balances (including proceeds from the Series B preferred stock and common stock financings), cash-equivalents, short-term investments, availability of sales of our installment contracts, availability under our bank line of credit and cash flows from operations will be sufficient to meet our working capital and capital expenditure requirements for at least the next twelve months. However, we may need to obtain additional financing thereafter or earlier, if our current plans and projections prove to be inaccurate or our expected cash flows prove to be insufficient to fund our operations because of lower-than-expected revenues, unanticipated expenses or other unforeseen difficulties or to fund one or more acquisitions. Our ability to obtain additional financing will depend on a number of factors, including market conditions, our operating performance and investor interest. These factors may make the timing, amount, terms and conditions of any financing unattractive. They may also result in our incurring additional indebtedness or accepting stockholder dilution. In addition, in 2002, we have issued convertible preferred stock and common stock warrants that contain anti-dilution provisions, rights of first refusal and other terms that may limit or impair our ability to raise additional funds through future financings. If adequate funds are not available or are not available on acceptable terms, we may have to forego strategic acquisitions or investments, reduce or defer our development activities, or delay our introduction of new products and services. Any of these actions may seriously harm our business and operating results.

WE MAY SUFFER LOSSES ON FIXED-PRICE ENGAGEMENTS.

We derive a substantial portion of our total revenues from service engagements and a significant percentage of these engagements have been undertaken on a fixed-price basis. We bear the risk of cost overruns and inflation in connection with fixed-price engagements, and as a result, any of these engagements may be unprofitable. In the past, we have had cost overruns on fixed-price service engagements. In addition, to the extent that we are successful in shifting customer purchases to our integrated suites of software and services and we price those engagements on a fixed-price basis, the size of our fixed-price engagements may increase, which could cause the impact of an unprofitable fixed-price engagement to have a more pronounced impact on our operating results.

OUR BUSINESS MAY SUFFER IF WE FAIL TO ADDRESS THE CHALLENGES ASSOCIATED WITH INTERNATIONAL OPERATIONS.

We derived approximately 50% of our total revenues from customers outside the United States in each of the past three fiscal years. We anticipate that revenues from customers outside the United States will continue to account for a significant portion of our total revenues for the foreseeable future. Our operations outside the United States are subject to additional risks, including:

- unexpected changes in regulatory requirements, exchange rates, tariffs and other barriers;
- political and economic instability;
- difficulties in managing distributors and representatives;
- difficulties in staffing and managing foreign subsidiary operations;
- difficulties and delays in translating products and product documentation into foreign languages; and
- potentially adverse tax consequences.

The impact of future exchange rate fluctuations on our operating results cannot be accurately predicted. In recent years, we have increased the extent to which we denominate arrangements with international customers in the currencies of the countries in which the software or services are provided. From time to time we have engaged in, and may continue to engage in, hedges of a significant portion of installment contracts denominated in foreign currencies. Any hedging policies implemented by us may not be successful, and the cost of these hedging techniques may have a significant negative impact on our operating results.

WE MAY NOT BE ABLE TO PROTECT OUR INTELLECTUAL PROPERTY RIGHTS, WHICH COULD MAKE US LESS COMPETITIVE AND CAUSE US TO LOSE MARKET SHARE.

We regard our software as proprietary and rely on a combination of copyright, patent, trademark and trade secret laws, license and confidentiality agreements, and software security measures to protect our proprietary rights. We have registered or have applied to register several of our significant trademarks in the United States and in selected other countries. We generally enter into non-disclosure agreements with our employees and customers, and historically have restricted access to our software products' source codes, which we regard as proprietary information. In a few cases, we have provided copies of the source code for some of our products to customers solely for the purpose of special product customization and have deposited copies of the source code for some of our products in third-party escrow accounts as security for ongoing service and license obligations. In these cases, we rely on non-disclosure and other contractual provisions to protect our proprietary rights.

The steps we have taken to protect our proprietary rights may not be adequate to deter misappropriation of our technology or independent development by others of technologies that are substantially equivalent or superior to our technology. Any misappropriation of our technology or development of competitive technologies could harm our business, and could force us to incur substantial costs in protecting and enforcing our intellectual property rights. The laws of some countries in which our products are licensed do not protect our products and intellectual property rights to the same extent as the laws of the United States.

WE MAY HAVE TO DEFEND AGAINST INTELLECTUAL PROPERTY INFRINGEMENT CLAIMS, WHICH COULD BE EXPENSIVE AND, IF WE ARE NOT SUCCESSFUL, COULD DISRUPT OUR BUSINESS.

Third parties may assert patent, trademark, copyright and other intellectual property rights to technologies that are important to us. In such an event, we may be required to incur significant costs in litigating a resolution to the asserted claims. The outcome of any litigation could require us to pay damages or obtain a license to a third party's proprietary rights in order to continue licensing our products as currently offered. If such a license is required, it might not be available on terms acceptable to us, if at all.

OUR SOFTWARE IS COMPLEX AND MAY CONTAIN UNDETECTED ERRORS.

Like many other complex software products, our software has on occasion contained undetected errors or "bugs." Because new releases of our software products are initially installed only by a selected group of customers, any errors or "bugs" in those new releases may not be detected for a number of months after the delivery of the software. These errors could result in loss of customers, harm to our reputation, adverse publicity, loss of revenues, delay in market acceptance, diversion of development resources, increased insurance costs or claims against us by customers.

WE MAY BE SUBJECT TO SIGNIFICANT EXPENSES AND DAMAGES BECAUSE OF LIABILITY CLAIMS.

The sale and implementation of some of our software products and services, particularly in the areas of advanced process control and optimization, may entail the risk of product liability claims. Our software products and services are used in the design, operation and management of manufacturing processes at large facilities, and any failure of our software could result in significant claims against us for damages or

for violations of environmental, safety and other laws and regulations. Our agreements with our customers generally contain provisions designed to limit our exposure to potential product liability claims. It is possible, however, that the limitation of liability provisions in our agreements may not be effective as a result of federal, state or local laws or ordinances or unfavorable judicial decisions. A substantial product liability claim against us could harm our operating results and financial condition.

IMPLEMENTATION OF OUR PRODUCTS CAN BE DIFFICULT, TIME-CONSUMING AND CUSTOMERS MAY BE UNABLE TO IMPLEMENT OUR PRODUCTS SUCCESSFULLY OR OTHERWISE ACHIEVE THE BENEFITS ATTRIBUTABLE TO OUR PRODUCTS.

Our products are intended to work with complex business processes. Some of our software, such as customized scheduling applications and integrated supply chain solutions, must integrate with the existing computer systems and software programs of our customers. This can be complex, time-consuming and expensive. As a result, some customers may have difficulty in implementing or be unable to implement these products successfully or otherwise achieve the benefits attributable to these products. Customers may also make claims against us relating to the functionality, performance or implementation of this software. Delayed or ineffective implementation of the software products or related services may limit our ability to expand our revenues and may result in customer dissatisfaction, harm to our reputation and may result in customer unwillingness to pay the fees associated with these products.

IF WE ARE NOT SUCCESSFUL IN OUR MANAGEMENT TRANSITION OR IN ATTRACTING AND RETAINING MANAGEMENT TEAM MEMBERS AND OTHER HIGHLY QUALIFIED INDIVIDUALS IN OUR INDUSTRY, WE MAY NOT BE ABLE TO SUCCESSFULLY IMPLEMENT OUR BUSINESS STRATEGY.

Our ability to establish and maintain a position of technology leadership in the highly competitive e-business software market depends in large part upon our ability to attract and retain highly qualified managerial, sales and technical personnel. We have historically relied on the services of Lawrence B. Evans, our principal founder and our Chairman, President and Chief Executive Officer. We recently announced a change in senior management effective October 1, 2002. David L. McQuillin, who will become our Chief Executive Officer in October 2002, has been serving as one of our co-chief operating officer and has not previously served as the chief executive officer of publicly traded corporation. In the future, we may experience the departure of other senior executives due to competition for talent from start-ups and other companies. Our future success depends on a successful management transition and will also depend on our continuing to attract, retain and motivate highly skilled employees. Competition for employees in our industry is intense. We may be unable to retain our key employees or attract, assimilate or retain other highly qualified employees in the future. We have from time to time in the past experienced, and we expect to continue to experience in the future, difficulty in hiring and retaining highly skilled employees with appropriate qualifications.

OUR COMMON STOCK MAY EXPERIENCE SUBSTANTIAL PRICE AND VOLUME FLUCTUATIONS.

The equity markets have from time to time experienced extreme price and volume fluctuations, particularly in the high technology sector, and those fluctuations have often been unrelated to the operating performance of particular companies. In addition, factors such as our financial performance, announcements of technological innovations or new products by us or our competitors, as well as market conditions in the computer software or hardware industries, may have a significant impact on the market price of our common stock. In the past, following periods of volatility in the market price of a public company's securities, securities class action litigation has often been initiated against companies. This type of litigation could result in substantial costs and a diversion of our management's attention and resources.

OUR COMMON STOCKHOLDERS MAY EXPERIENCE FURTHER DILUTION AND THE PRICE OF OUR COMMON STOCK MAY DECLINE AS A RESULT OF OUR RECENT CONVERTIBLE PREFERRED STOCK AND COMMON STOCK FINANCINGS.

In 2002, we issued convertible preferred stock, together with warrants to purchase 791,044 shares of common stock. We currently have outstanding 40,000 shares of Series B-I convertible preferred stock and 20,000 shares of Series B-II convertible preferred stock.

Each share of Series B-I and B-II convertible preferred stock is convertible into a number of shares of common stock equal to the stated value, which initially is \$1,000, divided by a conversion price of \$19.97 in the case of the Series B-1 convertible preferred stock and \$17.66 in the case of the Series B-2 convertible preferred stock, subject to antidilution and other adjustments. If we issue additional shares of common stock, or instruments convertible or exchangeable for common stock, at an effective net price less than the lesser of (a) \$17.75, in the case of the Series B-I convertible preferred stock, or \$15.69 in the case of the Series B-II convertible preferred stock and (b) the then-applicable conversion price for such series, the conversion price for that series will be reduced to equal that effective net price. These adjustments do not apply to the issuance of common stock or such instruments in specified firm commitment underwritten public offerings, strategic arrangements, mergers or acquisitions, and grants and purchases of securities pursuant to equity incentive plans.

The Series B-I and B-II convertible preferred stock accrues dividends at an annual rate of 4% that is payable quarterly, commencing June 30, 2002, in either cash or common stock, at our option (subject to our satisfaction of specified conditions set forth in our charter). From August 6, 2003 until February 6, 2004, for the Series B-I convertible preferred stock, and from August 28, 2003 until February 17, 2004, for the Series B-II convertible preferred stock, holders may require that we redeem up to a total of 20,000 shares of Series B-I convertible preferred stock and 10,000 shares of Series B-II convertible preferred stock if the average closing price of the common stock for the 20 consecutive trading days immediately preceding August 7, 2003 and August 28, 2003, respectively, or any date thereafter is below the then-applicable conversion price. Beginning on February 8, 2004 and February 28, 2004, holders of Series B-I convertible preferred stock and Series B-II convertible preferred stock, respectively, may require that we redeem any or all of their shares. Any such redemption must be made in cash or stock, at our option (subject to our satisfaction of specified conditions set forth in our charter), at a price equal to the stated value plus accrued but unpaid dividends. We will be required to redeem all of the then-outstanding Series B-I and B-II convertible preferred stock on February 7, 2009 at a price equal to the stated value plus all accrued but unpaid dividends. The redemption price may be paid in cash, common stock or both, at our option (subject to our satisfaction of specified conditions set forth in our charter).

As a result of these and other provisions, the Series B-I and B-II convertible preferred stock may be converted, and the warrants may be exercised, at a price per share that may be less than the then-current market price of the common stock, which may cause substantial dilution to our existing common stockholders. If the conversion price of the Series B-I and B-II convertible preferred stock or the exercise price of the warrants decreases as a result of antidilution provisions, the number of shares of common stock issuable in connection with any dividends conversion or redemption could increase significantly.

In May 2002, we sold 4,166,665 shares of common stock, together with five-year warrants to purchase up to 750,000 shares of common stock, in a private placement. In addition, we issued unit warrants, exercisable until July 23, 2002, that could result in the issuance of (a) up to an additional 2,083,333 shares of common stock and (b) five-year warrants to purchase up to an additional 375,000 shares of common stock. If we issue additional shares of common stock, or instruments convertible or exchangeable for common stock, in specified transactions at an effective net price less than the exercise price of any of the five-year warrants, then the exercise price of the warrants will be adjusted pursuant to a weighted average anti-dilution formula. As the result of these and other provisions, these warrants may be exercised at a price per share that may be less than the then-current market price of the stock, which may cause dilution to our existing common stockholders.

SPECIAL NOTE REGARDING FORWARD-LOOKING INFORMATION

This prospectus includes and incorporates forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act. All statements, other than statements of historical facts, included or incorporated in this prospectus regarding our strategy, future operations, financial position, future revenues, projected costs, prospects, plans and objectives of management are forward-looking statements. The words "anticipates," "believes," "estimates," "expects," "intends," "may," "plans," "projects," "will," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We cannot guarantee that we actually will achieve the plans, intentions or expectations disclosed in our forward-looking statements and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. We have included important factors in the cautionary statements included or incorporated in this prospectus, particularly under the heading "Risk Factors," that we believe could cause actual results or events to differ materially from the forward-looking statements that we make. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make. We do not assume any obligation to update any of our forward-looking statements.

USE OF PROCEEDS

All of the shares of common stock offered by this prospectus are being offered by Accenture LLP or its pledgees, donees, transferees or other successors-in-interest. For information about Accenture LLP, see "Selling Stockholder." We will not receive any proceeds from the sale of shares offered by this prospectus.

Accenture LLP will pay any underwriting discounts and commissions and expenses incurred by it for brokerage, accounting, tax or legal services or any other expenses incurred by it in disposing of the offered shares. We will bear all other costs, fees and expenses incurred in effecting the registration of the shares covered by this prospectus, including all registration and filing fees, Nasdaq listing fees, and fees and expenses of our counsel and our accountants.

- On August 30, 2002, we will issue to Accenture LLP a number of shares of common stock equal to \$11.1 million divided by the average closing price of the common stock on the ten trading days ending one day before the date of issuance. These shares are not being offered by this prospectus. We expect to register these shares under the Securities Act after August 30, 2002 for resale by Accenture LLP pursuant to a separate prospectus.

- If Accenture LLP completes specified development work, we will, on or about July 31, 2003, issue to Accenture LLP a number of shares of common stock of up to \$7.4 million divided by the average closing price of the common stock on the ten trading days ending one day before the date of issuance. These shares are not being offered by this prospectus. We expect to register these shares, if any, under the Securities Act after issuance for resale by Accenture LLP pursuant to a separate prospectus.

In contemplation of the issuance of these shares of common stock, Accenture LLP and Aspen entered into (a) a registration rights agreement under which we agreed to register those shares for sale by Accenture LLP under the Securities Act and (b) a stockholder agreement relating to, among other things, the voting and transfer of those shares. Copies of the registration rights agreement and stockholder agreement with Accenture LLP are included as exhibits to this registration statement.

Except as described above, neither Accenture LLP nor any of its affiliates has held any position or office with, or has otherwise had a material relationship with, us or any of our subsidiaries within the past three years.

PLAN OF DISTRIBUTION

For purposes of the following description, the term "selling stockholder" means Accenture LLP and any pledgees, donees, transferees or other successors-in-interest selling shares received after the date of this prospectus from Accenture LLP as a pledge, gift, partnership distribution or other non-sale related transfer. The selling stockholder may, from time to time, sell any or all of its shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. These sales may be at fixed or negotiated prices. The selling stockholder may use any one or more of the following methods when selling shares:

- ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its account;
- an exchange distribution in accordance with the rules of the applicable exchange;
- privately negotiated transactions;
- short sales;
- broker-dealers may agree with the selling stockholder to sell a specified number of such shares at a stipulated price per share;
- a combination of any such methods of sale; and
- any other method permitted pursuant to applicable law.

The selling stockholder may also sell shares under Rule 144 under the Securities Act, if available, rather than under this prospectus.

The selling stockholder may also engage in short sales against the box, puts and calls and other transactions in our securities or derivatives of our securities and may sell or deliver shares in connection with these trades.

Broker-dealers engaged by the selling stockholder may arrange for other brokers-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholder (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated. The selling stockholder does not expect these commissions and discounts to exceed what is customary in the types of transactions involved. Any profits on the resale of shares of common stock by a broker-dealer acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, attributable to the sale of shares will be borne by the selling stockholder. The selling stockholder may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of the shares if liabilities are imposed on that person under the Securities Act.

The selling stockholder may from time to time pledge or grant a security interest in some or all of the shares of common stock owned by it and, if it defaults in the performance of its secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time under this prospectus after we have filed an amendment to this prospectus under Rule 424(b)(3) or other applicable provision of the Securities Act to include the pledgee, transferee or other successor in interest as a selling stockholder under this prospectus.

The selling stockholder also may transfer the shares of common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus and may sell the shares of common stock from time to time under this prospectus after we have filed an amendment to this prospectus under Rule 424(b)(3) or other applicable

provision of the Securities Act to include the pledgee, transferee or other successor in interest as a selling stockholder under this prospectus.

The selling stockholder and any broker-dealers or agents that are involved in selling the shares of common stock may be deemed to be "underwriters" within the meaning of the Securities Act in connection with such sales. In such event, any commissions received by such broker-dealers or agents and any profit on the resale of the shares of common stock purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act.

We are required to pay certain fees and expenses incident to the registration of the shares of common stock. We have agreed to indemnify the selling stockholder against certain losses, claims, damages and liabilities, including liabilities under the Securities Act.

The selling stockholder has advised us that it has not entered into any agreements, understandings or arrangements with any underwriters or broker-dealers regarding the sale of its shares of common stock, nor is there an underwriter or coordinating broker acting in connection with a proposed sale of shares of common stock by the selling stockholder. If we are notified by the selling stockholder that any material arrangement has been entered into with a broker-dealer for the sale of shares of common stock, if required, we will file a supplement to this prospectus. If the selling stockholder uses this prospectus for any sale of the shares of common stock, it will be subject to the prospectus delivery requirements of the Securities Act.

The anti-manipulation rules of Regulation M under the Securities Exchange Act may apply to sales of our common stock and activities of the selling stockholder.

LEGAL MATTERS

The validity of the common stock offered by this prospectus has been passed upon for us by Hale and Dorr LLP.

EXPERTS

The combined financial statements of the Hyprotech division of AEA Technology plc as at, and for the year ended, March 31, 2002 included beginning on page F-2 of our current report on Form 8-K dated May 31, 2002 have been incorporated by reference herein and in the related registration statement in reliance upon the report of PricewaterhouseCoopers LLP, independent accountants, given the authority of said firm as experts in auditing and accounting.

NOTICE REGARDING ARTHUR ANDERSEN LLP

Our consolidated balance sheets as of June 30, 2001 and 2000 and the consolidated statements of operations, stockholders' equity and comprehensive income (loss) and cash flows for each of the years in the three-year period ended June 30, 2001 incorporated by reference in this registration statement were audited by Arthur Andersen LLP. After reasonable efforts, we have been unable to obtain the written consent of Arthur Andersen to the incorporation by reference in this registration statement of such consolidated financial statements and the related report of Arthur Andersen. Accordingly, we have omitted from this registration statement the consent of Arthur Andersen in reliance upon Rule 437a under the Securities Act.

Section 11(a) of the Securities Act provides that if any part of a registration statement at the time it becomes effective contains an untrue statement of a material fact or an omission to state a material fact required to be stated therein or necessary to make the statements therein not misleading, any person acquiring a security pursuant to such registration statement (unless it is proved that at the time of such acquisition such person knew of such untruth or omission) may sue, among others, every accountant who has consented to be named as having prepared or certified any part of the registration statement or as having prepared or certified any report or valuation which is used in connection with the registration statement with respect to the statement in such registration statement, report or valuation which purports to have been prepared or certified by the accountant. Since Arthur Andersen has not consented to the incorporation by reference of our consolidated financial statements in this registration statement, you will not be able to recover against Arthur Andersen under Section 11 of the Securities Act for any untrue statements of a material fact contained in such financial statements or any omissions to state a material fact required to be stated therein.

WHERE YOU CAN FIND MORE INFORMATION

We file reports, proxy statements and other documents with the SEC. You may read and copy any document we file at the SEC's public reference room at Judiciary Plaza Building, 450 Fifth Street, N.W., Room 1024, Washington, D.C. 20549. You should call 1-800-SEC-0330 for more information on the public reference room. Our SEC filings are also available to you on the SEC's Internet site at <http://www.sec.gov>.

This prospectus is part of a registration statement that we filed with the SEC. The registration statement contains more information than this prospectus regarding us and our common stock, including exhibits. You can obtain a copy of the registration statement from the SEC at the address listed above or from the SEC's Internet site.

INCORPORATION OF DOCUMENTS BY REFERENCE

The SEC requires us to "incorporate" into this prospectus information that we file with the SEC in other documents. This means that we can disclose important information to you by referring to other documents that contain that information. The information incorporated by reference is considered to be part of this prospectus. Information contained in this prospectus and information that we file with the SEC in the future and incorporate by reference in this prospectus automatically updates and supersedes previously filed information. We incorporate by reference the documents listed below and any future filings we make with the SEC under Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act, prior to the sale of all the shares covered by this prospectus.

- (1) our annual report on Form 10-K for the fiscal year ended June 30, 2001;
- (2) our quarterly reports on Form 10-Q for the fiscal quarters ended September 30, 2001, December 31, 2001, and March 31, 2002, respectively;
- (3) our current reports on Form 8-K filed on October 29, 2001, February 12, 2002, March 5, 2002, March 20, 2002, April 5, 2002, May 31, 2002, June 7, 2002, June 18, 2002, July 2, 2002, and July 3, 2002;
- (4) all of our filings pursuant to the Securities Exchange Act after July 3, 2002, the date of filing the amended registration statement; and
- (5) the description of our common stock contained in our registration statement on Form 8-A, as amended by our current report on Form 8-K filed on March 20, 2002.

You may request a copy of these documents, which will be provided to you at no cost, by contacting:

Aspen Technology, Inc.
Ten Canal Park
Cambridge, Massachusetts 02141
Attention: Investor Relations
Telephone: (617) 949-1000
Email: invest@aspentech.com

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

ITEM 14. OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION.

The following table sets forth the various expenses to be incurred in connection with the sale and distribution of the securities being registered hereby, all of which will be borne by the Registrant (except any underwriting discounts and commissions and expenses incurred by the selling stockholder for brokerage, accounting, tax or legal services or any other expenses incurred by the selling stockholder in disposing of the shares). All amounts shown are estimates except the Securities and Exchange Commission registration fee.

Securities and Exchange Commission registration fee.....	\$ 1,666
Legal fees and expenses.....	5,000
Accounting fees and expenses.....	2,500
Printing, EDGAR formatting and mailing expenses.....	5,000
Miscellaneous expenses.....	1,834

Total expenses.....	\$16,000
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ITEM 15. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

Article SEVENTH of the Registrant's Certificate of Incorporation, as amended (the "Certificate of Incorporation"), provides that no director of the Registrant shall be personally liable for any monetary damages for any breach of fiduciary duty as a director, except to the extent that the Delaware General Corporation Law prohibits the elimination or limitation of liability of directors for breach of fiduciary duty.

Article EIGHTH of the Certificate of Incorporation provides that a director or officer of the Registrant shall be indemnified by the Registrant against:

(a) all expenses (including attorneys' fees), judgments, fines and amounts paid in settlement incurred in connection with any litigation or other legal proceeding (other than an action by or in the right of the Registrant) brought against him or her by virtue of his or her position as a director or officer of the Registrant if he or she acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the best interests of the Registrant, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful; and

(b) all expenses (including attorneys' fees) and amounts paid in the settlement incurred in connection with any action by or in the right of the Registrant brought against him or her by virtue of his or her position as a director or officer of the Registrant if he or she acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the best interests of the Registrant, except that no indemnification shall be made with respect to any matter as to which such person shall have been adjudged to be liable to the Registrant, unless a court determines that, despite such adjudication but in view of all of the circumstances, he or she is entitled to indemnification of such expenses.

Notwithstanding the foregoing, to the extent that a director or officer has been successful, on the merits or otherwise, including the dismissal of an action without prejudice, he or she is required to be indemnified by the Registrant against all expenses (including attorneys' fees) incurred in connection therewith. Expenses shall be advanced to a director or officer at his or her request, provided that he or she undertakes to repay the amount advanced if it is ultimately determined that he or she is not entitled to indemnification for such expenses.

Indemnification is required to be made unless the Registrant determines that the applicable standard of conduct required for indemnification has not been met. In the event of a determination by the

Registrant that the director or officer did not meet the applicable standard of conduct required for indemnification, or if the Registrant fails to make an indemnification payment within sixty days after such payment is claimed by such person, such person is permitted to petition the court to make an independent determination as to whether such person is entitled to indemnification. As a condition precedent to the right of indemnification, the director or officer must give the Registrant notice of the action for which indemnity is sought and the Registrant has the right to participate in such action or assume the defense thereof.

Article EIGHTH of the Certificate of Incorporation further provides that the indemnification provided therein is not exclusive, and provides that in the event that the Delaware General Corporation Law is amended to expand the indemnification permitted to directors or officers the Registrant must indemnify those persons to fullest extent permitted by such law as so amended.

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

The Registrant maintains a directors' and officers' insurance policy that covers certain liabilities of directors and officers of the Registrant, including liabilities under the Securities Act of 1933. The Registrant maintains a general liability insurance policy that covers certain liabilities of directors and officers of the Registrant arising out of claims based on acts or omissions in their capacities as directors or officers.

ITEM 16. EXHIBITS

INCORPORATED BY
REFERENCE EXHIBIT
FILED WITH -----

----- NUMBER
DESCRIPTION THIS FORM
S-3 FORM FILING DATE
WITH SEC EXHIBIT
NUMBER - -----

4.1 Certificate of
Incorporation of 8-K
March 27, 1998 3.1
Aspen Technology,
Inc. 4.2 By-laws of
Aspen Technology, Inc
8-K March 27, 1998
3.2 5.1 Opinion of
Hale and Dorr LLP X
23.1 Consent of
PricewaterhouseCoopers
X LLP 23.2 Consent of
Hale and Dorr LLP, X
included in Exhibit
5.1 filed herewith.
24.1 Power of
Attorney (see page
II-4 of * the
Registration
Statement as
initially filed).
99.1 Registration
Rights Agreement
dated 8-K February
12, 2002 99.6 as of

February 8, 2002
between Aspen
Technology, Inc. and
Accenture LLP 99.2
Stockholder Agreement
dated as of 8-K
February 12, 2002
99.7 February 8, 2002
between Aspen
Technology, Inc. and
Accenture LLP

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* Filed previously.

ITEM 17. UNDERTAKINGS.

Item 512(a) of Regulation S-K. The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933, as amended (the "Securities Act");

(ii) To reflect in the prospectus any facts or events arising after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement. Notwithstanding the foregoing, any increase or decrease in the volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective Registration Statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement;

provided, however, that paragraphs (1)(I) and (1)(ii) do not apply if the information required to be included is a post-effective amendment by those paragraphs is contained in periodic reports filed by the Company pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), that are incorporated by reference in this Registration Statement.

(2) That, for the purposes of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at the time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

Item 512(b) of Regulation S-K. The Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein and the offering of such securities at the time shall be deemed to be the initial bona fide offering thereof.

Item 512(h) of Regulation S-K. Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the indemnification provisions described herein, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Amendment No. 1 to Registration Statement to be signed on its behalf by the undersigned, therunto duly authorized, in the City of Cambridge, Commonwealth of Massachusetts, as of July 3, 2002.

ASPEN TECHNOLOGY, INC.

By: /s/ LISA W. ZAPPALA

Lisa W. Zappala
Senior Vice President and Chief
Financial Officer

Pursuant to the requirements of the Securities Act of 1933, as amended, this Amendment No. 1 to Registration Statement has been signed as of July 3, 2002 by the following persons in the capacities indicated.

SIGNATURE
TITLE ----

- *
Chairman
of the
Board,
President
and Chief

Executive
Officer
(Principal
Executive
Officer)
Lawrence
B. Evans
/s/ LISA
W. ZAPPALA
Senior
Vice
President
and Chief
Financial
Officer --

(Principal
Financial
and
Accounting
Officer)
Lisa W.
Zappala *
Director -

Joseph F.
Boston *
Director -

Gresham T.
Brebach,
Jr. *
Director -

Douglas R.
Brown *
Director -

Stephen L.
Brown *
Director -

Stephen M.
Jennings *
Director -

Joan C.
McArdle
*By/s/
LISA W.
ZAPPALA --

Attorney-
in-fact

EXHIBIT INDEX

INCORPORATED BY REFERENCE EXHIBIT FILED WITH ----- ----- ----- NUMBER DESCRIPTION THIS FORM S-3 FORM FILING DATE WITH SEC EXHIBIT NUMBER - ----- ----- -----	
4.1 Certificate of Incorporation of 8-K March 27, 1998 3.1 Aspen Technology, Inc. 4.2 By-laws of Aspen Technology, Inc 8-K March 27, 1998 3.2 5.1 Opinion of Hale and Dorr LLP X 23.1 Consent of X PricewaterhouseCoopers LLP 23.2 Consent of Hale and Dorr LLP, X included in Exhibit 5.1 filed herewith. 24.1 Power of Attorney (see page II-4 * of the Registration Statement as initially filed). 99.1 Registration Rights Agreement 8-K February 12, 2002 99.6 dated as of February 8, 2002 between Aspen Technology, Inc. and Accenture LLP 99.2 Stockholder Agreement dated as 8-K February 12, 2002 99.7 of February 8, 2002 between Aspen Technology, Inc. and Accenture LLP	

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* Filed previously.

HALE AND DORR LLP
COUNSELLORS AT LAW
60 STATE STREET, BOSTON, MASSACHUSETTS 02109
617-526-6000 - FAX 617-526-5000

July 3, 2002

Aspen Technology, Inc.
Ten Canal Park
Cambridge, Massachusetts 02141

Re: Registration Statement on Form S-3

Ladies and Gentlemen:

This opinion is furnished to you in connection with a Registration Statement on Form S-3 (as amended, the "Registration Statement") filed with the Securities and Exchange Commission under the Securities Act of 1933, as amended (the "Securities Act"), for the registration of an aggregate of 1,641,672 shares of common stock, \$.10 par value per share (the "Shares"), of Aspen Technology, Inc., a Delaware corporation (the "Company"). All of the Shares are being registered on behalf of Accenture LLP.

We are acting as counsel for the Company in connection with the registration for resale of the Shares. We have examined a signed copy of the Registration Statement on Form S-3 as initially filed with the Securities and Exchange Commission on June 3, 2002, and a signed copy of Amendment No. 1 to such Registration Statement to be filed with the Securities and Exchange Commission on July 3, 2002. We have also examined and relied upon minutes of meetings of the stockholders and the Board of Directors of the Company as provided to us by the Company, stock record books of the Company as provided to us by the Company, the Certificate of Incorporation and By-Laws of the Company, each as restated and amended to date, and such other documents as we have deemed necessary for purposes of rendering the opinions hereinafter set forth.

In our examination of the foregoing documents, we have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as copies, the authenticity of the originals of such latter documents and the legal competence of all signatories to such documents.

We assume that the appropriate action will be taken, prior to the offer and sale of the Shares, to register and qualify the Shares for sale under all applicable state securities or "blue sky" laws. We express no opinion herein as to the laws of any state or jurisdiction other than the state laws of the Commonwealth of Massachusetts, the General Corporation Law of the State of Delaware and the federal laws of the United States of America.

Based upon and subject to the foregoing, we are of the opinion that the Shares have been duly authorized and are validly issued, fully paid and nonassessable.

It is understood that this opinion is to be used only in connection with the offer and sale of the Shares while the Registration Statement is in effect.

Please note that we are opining only as to the matters expressly set forth herein, and no opinion should be inferred as to any other matters. This opinion is based upon currently existing statutes, rules, regulations and judicial decisions, and we disclaim any obligation to advise you of any change in any of these sources of law or subsequent legal or factual developments that might affect any matters or opinions set forth herein.

We hereby consent to the filing of this opinion with the Securities and Exchange Commission as an exhibit to the Registration Statement in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Securities Act and to the use of our name therein and in the related prospectus under the caption "Legal Matters." In giving such consent, we do not hereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Securities and Exchange Commission.

Very truly yours,

/s/ HALE AND DORR LLP

CONSENT OF INDEPENDENT PUBLIC ACCOUNTANTS

We hereby consent to the incorporation by reference in Amendment No. 1 to the Registration Statement on Form S-3 of Aspen Technology, Inc. (File No. 333-89710) of our report dated May 17, 2002 relating to the combined financial statements of Hyprotech Division of AEA Technology plc, which appears in the Current Report on Form 8-K of Aspen Technology, Inc. dated May 31, 2002. We also consent to the reference to us under the heading "Experts" in such Amendment to the Registration Statement.

/s/ PricewaterhouseCoopers LLP

Calgary, Alberta, Canada
July 3, 2002