

AGILENT TECHNOLOGIES INC
Form 11-K
June 19, 2008

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 11-K

(MARK ONE)

x ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.

FOR THE FISCAL YEAR ENDED DECEMBER 31, 2007.

OR

o TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934.

FOR THE TRANSITION PERIOD FROM TO

COMMISSION FILE NUMBER: 001-15405

A. FULL TITLE OF THE PLAN AND THE ADDRESS OF THE PLAN, IF DIFFERENT FROM THAT OF THE ISSUER NAMED BELOW:

AGILENT TECHNOLOGIES, INC.

401(K) PLAN

B. NAME OF ISSUER OF THE SECURITIES HELD PURSUANT TO THE PLAN AND THE ADDRESS OF ITS PRINCIPAL EXECUTIVE OFFICE:

AGILENT TECHNOLOGIES, INC.

5301 STEVENS CREEK BOULEVARD

SANTA CLARA, CALIFORNIA 95051

AGILENT TECHNOLOGIES, INC.

401(k) PLAN

Financial Statements and Supplemental Schedule

December 31, 2007 and 2006

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Participants and

Plan Administrator of the

Agilent Technologies, Inc.

401(k) Plan

We have audited the financial statements of the Agilent Technologies, Inc. 401(k) Plan (the Plan) as of December 31, 2007 and 2006, and for the years then ended, as listed in the accompanying table of contents. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Plan's internal control over financial reporting. Our audits included consideration 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 Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the Plan's management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2007 and 2006, and the changes in net assets available for benefits for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Our audits were performed for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedule, as listed in the accompanying table of contents, is presented for the purpose of additional analysis and is not a required part of the basic financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. The supplemental schedule is the responsibility of the Plan's management. The supplemental schedule has been subjected to the auditing procedures applied in the audits of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

/s/ MOHLER, NIXON & WILLIAMS
Accountancy Corporation

Campbell, California
June 17, 2008

AGILENT TECHNOLOGIES, INC.

401(k) PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

(in thousands)

| | 2007 | December 31 | 2006 |
|--|-----------|------------------|---------------------|
| Assets: | | | |
| Investments, at fair value | \$ | 1,877,338 | \$ 1,757,409 |
| Participant loans | | 10,676 | 10,490 |
| Assets held for investment purposes | | 1,888,014 | 1,767,899 |
| Employer's contribution receivable | | | 3,200 |
| Accrued income receivable | | 98 | 2 |
| Receivable from broker for securities sold | | 184 | 1,002 |
| Total assets | | 1,888,296 | 1,772,103 |
| Liabilities: | | | |
| Accrued fees payable | | 242 | 78 |
| Payable to broker for securities purchased | | 597 | 226 |
| Total liabilities | | 839 | 304 |
| Net assets available for benefits at fair value | | 1,887,457 | 1,771,799 |
| Adjustment from fair value to contract value for fully benefit-responsive investment contracts | | 3,857 | 4,864 |
| Net assets available for benefits | \$ | 1,891,314 | \$ 1,776,663 |

See notes to financial statements.

AGILENT TECHNOLOGIES, INC.

401(k) PLAN

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

(in thousands)

| | Years ended December 31, | |
|--|-----------------------------|--------------|
| | 2007 | 2006 |
| Additions to net assets attributed to: | | |
| Investment income: | | |
| Dividends and interest | \$ 110,176 | \$ 145,156 |
| Net realized and unrealized appreciation in fair value of investments | 68,792 | 41,155 |
| | 178,968 | 186,311 |
| Contributions: | | |
| Participants | 77,213 | 82,316 |
| Employer s | 26,568 | 26,119 |
| | 103,781 | 108,435 |
| Total additions | 282,749 | 294,746 |
| Deductions from net assets attributed to withdrawals and distributions | 168,098 | 246,802 |
| Net increase prior to transfer | 114,651 | 47,944 |
| Transfer of assets to the Verigy Ltd. 401(k) Plan in 2006 | | (57,715) |
| Net increase (decrease) in net assets | 114,651 | (9,771) |
| Net assets available for benefits: | | |
| Beginning of year | 1,776,663 | 1,786,434 |
| End of year | \$ 1,891,314 | \$ 1,776,663 |

See notes to financial statements.

AGILENT TECHNOLOGIES, INC.

401(k) PLAN

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2007 AND 2006

NOTE 1 - THE PLAN AND ITS SIGNIFICANT ACCOUNTING POLICIES

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General - The following description of the Agilent Technologies, Inc. 401(k) Plan (the Plan) provides only general information. Participants should refer to the Plan document for a more complete description of the Plan's provisions.

The Plan is a defined contribution plan that was established in 2000 by Agilent Technologies, Inc. (the Company) to provide benefits to eligible employees, as defined in the Plan document. The Plan administrator believes that the Plan is currently designed and operated in compliance with the applicable requirements of the Internal Revenue Code of 1986, as amended (the Code), and the provisions of the Employee Retirement Income Security Act of 1974 (ERISA), as amended. The Company intends that the Plan be qualified pursuant to Sections 401(a) and 401(k) of the Code.

In June 2007, the Company acquired Stratagene. The Board of Directors of Stratagene voted to terminate the Stratagene plan effective June 6, 2007 and plan assets were distributed to participants as soon as administratively practical, subject to the provisions of ERISA. Employees retained by the Company became eligible to participate in the Plan effective June 7, 2007.

Administration - The Board of Directors of the Company has appointed a Benefits Committee (the Committee) with certain authority to manage the policy, design and administration of the Plan. The Company has contracted with Fidelity Management Trust Company (Fidelity) to act as the trustee and an affiliate of Fidelity to process and maintain the records of participant data. Substantially all expenses incurred for administering the Plan are paid by the Company.

Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires the Plan's management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Basis of accounting - The financial statements of the Plan are prepared on the accrual method of accounting in accordance with accounting principles generally accepted in the United States of America. Sales and purchases are recorded on the trade date. Benefits are recorded when paid. Dividends are recorded on the ex-dividend date.

As described in Financial Accounting Standards Board (FASB) Staff Position, FSP AAG INV-1, *Reporting of Fully Benefit Responsive Investment Contracts Held by Certain Investments Companies Subject to the AICPA Investment Company Guide and Defined-Contribution, Health and Welfare, and Pension Plans* (the FSP), investment contracts held by a defined-contribution plan are required to be reported at fair value. However, contract value is the relevant measurement attribute for that portion of the net assets available for benefits of a defined-contribution plan attributable to fully benefit-responsive investment contracts because contract value is the amount the participants would receive if they were to initiate permitted transactions under the terms of the plan. As required by the FSP, the statements of net assets available for benefits present the fair value of the investment contracts as well as the adjustment to fully benefit-responsive investment contracts from fair value to contract value. The statements of changes in net assets available for benefits are prepared on a contract value basis.

Investments - Investments of the Plan are held by Fidelity, as trustee, and invested based solely upon instructions received from participants.

Investments - Investments of the Plan are held by Fidelity, as trustee, and invested based solely upon instructions received from participants.

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The Plan's investments in Company common stock, Verigy Ltd. common stock (an investment option that was given as a dividend to Company common stock shareholders on October 31, 2006 and which was completely

liquidated on April 30, 2007), and mutual funds are valued at fair value as of the last day of the Plan year, as measured by quoted market prices. Bank collective funds are valued at fair value as of the last day of the Plan year, as reported to the Plan by Fidelity. Participant loans are valued at cost, which approximates fair value.

Stable Value Fund - The Plan's Stable Value Fund is comprised primarily of investments in bank collective funds and synthetic investment contracts (synthetic GICs). Since the Stable Value Fund is fully benefit responsive, contract value is the relevant measurement attribute for that portion of the net assets available for benefits attributable to the investments included in the Stable Value Fund. Contract value represents contributions made plus interest accrued at the contract rate, less withdrawals. Synthetic investment contracts consist of various contracts with banks or other institutions which provide for fully benefit-responsive withdrawals and transfers by Plan participants in the Stable Value Fund at contract value.

As of December 31, 2007 and 2006, the Plan's synthetic GICs consist of the following:

As of December 31, 2006:

| Carrier Name | Major credit ratings | Year-end contract value | Investments at fair value(1) | Investment contracts at fair value | Adjustments to contract value(2) |
|-------------------------------|----------------------|-------------------------|------------------------------|------------------------------------|----------------------------------|
| Synthetic GICs | | | | | |
| Bank of America, N.A. | AA/Aa1 | \$ 32,711,766 | \$ 32,000,061 | \$ 15,263 | \$ 696,442 |
| IXIS Financial Products Inc. | AAA/Aaa | 3,773,664 | 3,279,491 | | 494,173 |
| IXIS Financial Products Inc. | AAA/Aaa | 57,706,923 | 56,225,963 | | 1,480,960 |
| JPMorgan Chase Bank | AA-/Aa2 | 32,712,035 | 32,000,036 | | 711,999 |
| Monumental Life Insurance Co. | AA/Aa3 | 57,702,552 | 56,221,286 | | 1,481,266 |
| Total | | \$ 184,606,940 | \$ 179,726,837 | \$ 15,263 | \$ 4,864,840 |

(1) Note: Total year-end contract value and investments at fair value do not include assets held in cash, which are \$453,448 as of December 31, 2006.

(2) Adjustments from fair value to contract value for fully benefit-responsive investment contracts.

As of December 31, 2007:

| Carrier Name | Major credit ratings | Year-end contract value | Investments at fair value(3) | Investment contracts at fair value | Adjustments to contract value(4) |
|---------------------------------|----------------------|-------------------------|------------------------------|------------------------------------|----------------------------------|
| Synthetic GICs | | | | | |
| Bank of America, N.A. | AA+/Aaa | \$ 32,187,045 | \$ 31,742,597 | \$ | \$ 444,448 |
| Natixis Financial Products Inc. | AAA/Aaa | 4,767,522 | 4,588,916 | 31,512 | 147,094 |
| Natixis Financial Products Inc. | AAA/Aaa | 55,516,423 | 54,106,751 | | 1,409,672 |
| JPMorgan Chase Bank | AA/Aaa | 32,187,022 | 31,742,515 | | 444,507 |
| Monumental Life Insurance Co. | AA/Aa3 | 55,510,314 | 54,099,393 | | 1,410,921 |
| Total | | \$ 180,168,326 | \$ 176,280,172 | \$ 31,512 | \$ 3,856,641 |

(3) Note: Total year-end contract value and investments at fair value do not include assets held in cash, which are \$3,238,722 as of December 31, 2007.

(4) Adjustments from fair value to contract value for fully benefit-responsive investment contracts.

There are no reserves against contract value for credit risk of the contract issuer or otherwise. The crediting interest rate is based on a formula agreed upon with the contract issuer, but it may not be less than zero. Such interest rates are reviewed on a periodic basis for resetting. The relationship of future crediting rates and the adjustment to contract value reported on the statements of net assets available for benefits is provided through the mechanism of the crediting rate formula. The difference between the contract value and the fair market value of the investments of each contract is periodically amortized into each contract's crediting rate. The amortization factor is calculated by dividing the difference between the fair market value of the investment and the contract value of the duration of the bond portfolio covered by the investment contract.

The average yields on the fund are as follows for the years ended December 31:

| | 2007 | 2006 |
|---|-------|-------|
| Average yields: | | |
| Based on actual earnings | 4.85% | 5.52% |
| Based on interest rate credited to participants | 4.95% | 4.52% |

The key factors that could influence future interest crediting rates include, but are not limited to: (1) the Plan cash flows, (2) changes in interest rates, (3) total return performance of the fair market value bond strategies underlying each synthetic GIC contract, (4) default or credit failures of any of the securities, investment contracts or other investments held in the fund or (5) the initiation of an extended termination of one or more of the synthetic GIC contracts by the contract issuer.

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Certain employer initiated events or other external events not initiated by plan participants will limit the ability of the Plan to transact at contract value with the issuer. Such events include the following: (1) Plan's failure to qualify under the Internal Revenue Code of 1986 as amended, (2) amendments to the Plan documents (including complete or partial Plan termination or merger with another plan), (3) changes to the Plan's prohibition on competing investment options or establishment of a competing plan by the Plan sponsor, (4) bankruptcy of the Plan sponsor or other Plan sponsor events (for example, divestitures or spin-offs of a subsidiary) that cause a significant withdrawal from the Plan or (5) events resulting in a material and adverse financial impact on the contract issuer, including changes in the tax code, laws or regulations. The Plan administrator does not believe that the occurrence of any such value event, which would limit the Plan's ability to transact at contract value with participants, is probable.

The synthetic GICs do not permit the contract issuer to terminate the agreement prior to the scheduled maturity date unless there is a breach in contract which is not corrected within the specified cure period.

Income taxes - The Plan has been amended since receiving its latest favorable determination letter dated January 2, 2003. The Company believes that the Plan is operated in accordance with, and qualifies under, the applicable

requirements of the Code and related state statutes, and that the trust, which forms a part of the Plan, is exempt from federal income and state franchise taxes.

Risks and uncertainties - The Plan provides for various investment options in any combination of investment securities offered by the Plan, including the Company's common stock. Investment securities are exposed to various risks, such as interest rate, market fluctuations and credit risks. Due to the risk associated with certain investment securities, it is at least reasonably possible that changes in market values, interest rates or other factors in the near term would materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits and the statements of changes in net assets available for benefits.

New accounting pronouncement - In September 2006, the FASB issued Statement of Financial Accounting Standards (SFAS) No. 157, Fair Value Measurements. SFAS No. 157 establishes a single authoritative definition of fair value, sets out a framework for measuring fair value and requires additional disclosures about fair value measurements. SFAS No. 157 is effective for financial statements issued for fiscal years beginning after November 15, 2007. Management does not believe the impact of the new accounting pronouncement will be material to the financial statements.

NOTE 2 - RELATED PARTY TRANSACTIONS

Certain Plan investments are managed by an affiliate of Fidelity, the trustee of the Plan. Any purchases and sales of these funds are performed in the open market at fair value. Such transactions, while considered party-in-interest transactions under ERISA regulations, are permitted under the provisions of the Plan and are specifically exempt from the prohibition of party-in-interest transactions under ERISA.

As allowed by the Plan, participants may elect to invest a portion of their accounts in the Agilent Technologies Stock Fund (the Fund), which is primarily invested in shares of Company common stock. Investments in the Fund are at the direction of the Plan participants. Participants are not permitted to allocate more than 25% of their total contributions, including Company matching contributions, to the Fund and the maximum amount of the participant's account balance that can be allocated to the Fund is limited to 25% of the participant's account. The shares of Company common stock are traded in the open market.

NOTE 3 - PARTICIPATION AND BENEFITS

Eligibility - Employees who are eligible to participate in the Plan include those employees of the Company and its designated domestic subsidiaries who are on the U.S. dollar payroll and who are employed as regular full-time or regular part-time employees of the Company. There is no waiting period for eligibility.

Participant contributions - Upon initially becoming an eligible employee, a participant is deemed to have elected a 3% deferral effective on the first day of commencement of participation, unless that employee makes a change to that election in the manner prescribed by the Plan. Participating employees can elect to have the Company contribute up to 50% of their eligible pre-tax compensation, not to exceed the amount allowable under the Plan document and current income tax regulations. Participants who elect to have the Company contribute a portion of their compensation to the Plan agree to accept an equivalent reduction in taxable compensation. Contributions withheld are invested in accordance with the participant's direction. The Plan also allows eligible participants to make a catch-up contribution up to the maximum allowed under current income tax regulations.

Participants are also allowed to make rollover contributions of eligible distributions received from other tax-qualified employer-sponsored retirement plans. Such contributions are deposited in the appropriate investment funds in accordance with the participant's direction and the Plan's provisions.

Employer contributions - The Company makes matching contributions as required by the Plan document. In 2007 and 2006, the Company matched 100% of the employee's salary deferral for the first 3% of employee's eligible pre-tax compensation, and 50% of the employee's salary deferral for the next 2% of employee's eligible pre-tax compensation. The Company matching contribution was deposited into the individual employee's Plan account after the end of each of the Company's fiscal quarters, which are January 31, April 30, July 31 and October 31. To receive the Company match, the participant must be an employee of the Company at these dates, consistent with the terms of the Plan, except for certain retirees and deceased employees who either retired or died during the fiscal quarter. Effective November 21, 2007, the Plan was amended to change the matching contributions from a quarterly match to a pay period match.

Both employee deferrals and Company contributions in 2007 and 2006 have been made in cash for all funds; however, Company contributions may be made in either cash or common stock of the Company. No Company contributions have been made in the form of common stock of the Company in 2007 and 2006.

Vesting - Participants are 100% vested in their salary deferrals, rollover contributions, and Company matching contributions, subject to the terms of the Plan.

Participant accounts - Each participant's account is credited with the participant's salary deferrals, Plan earnings or losses and an allocation of the Company's matching contribution. Allocation of the Company's matching contribution is based on participant salary deferrals, as defined in the Plan.

Participants can transfer their invested funds among the available investment options and/or change the investment of their future contributions as often as desired. These transfers and changes must be made in whole percent increments. Initial contributions for new hires were automatically invested in the retirement age-appropriate Fidelity Freedom Fund, the fund designated as the Plan default fund, until the participant made a change to that investment election. The Fidelity Freedom Fund was selected as the Plan's default fund because each fund is a blend of stocks, bonds and short-term investments designed to provide an age-appropriate asset allocation for an investor based on his or her targeted retirement date.

Payment of benefits - Upon termination of employment, the participants or beneficiaries may elect to leave their account balance in the Plan, or receive their total benefits in a lump sum amount equal to the value of the participant's interest in their account in the form of rollovers or payments in cash and stock. The Plan allows for automatic lump sum distribution of participant account balances that do not exceed \$1,000.

Loans to participants - The Plan allows participants to borrow not less than \$1,000 and up to the lesser of \$50,000 or 50% of their account balance. The loans are secured by the participant's balance. Such loans bear interest at a rate fixed at the time of the loan at the prime rate plus one-half percent and must be repaid to the Plan between one year and four years. Generally, loans are repaid semi-monthly via automatic payroll deduction. The Plan allows terminated participants to electronically continue to repay their loan after termination of employment. The specific terms and conditions of such loans are established by the Committee. Outstanding loans at December 31, 2007 carry interest rates ranging from 4.5% to 10%.

NOTE 4 PLAN TRANSFER

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In June 2006, the Company spun off its semiconductor test solutions business to a subsidiary named Verigy Ltd. and plan assets of approximately \$57,715,000 were transferred from the Plan to the Verigy Ltd. 401(k) Plan via a trust-to-trust asset transfer. Verigy Ltd. became an independent company on October 31, 2006.

NOTE 5 - INVESTMENTS

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The number of shares of the Company common stock in the Fund was 3,136,707 and 4,168,790 as of December 31, 2007 and 2006, respectively. The fair value of the Company common stock included in the Fund was approximately \$115,243,000 and \$145,282,000 at December 31, 2007 and 2006, respectively. The Fund assigns units of participation to those participants with account balances in the Fund. The total number of units in the Fund at December 31, 2007 and 2006 was 4,257,670 and 5,667,186 respectively, and the net unit value was \$27.20 and \$25.82 respectively, at these dates. The Fund is comprised primarily of Company common stock purchased on the open market. The Fund also includes a minor investment in the Fidelity Institutional Money Market Fund.

The number of shares of Verigy Ltd. common stock in the Verigy Stock Fund (the Verigy Fund) was 483,649 as of December 31, 2006. The fair value of the Verigy Ltd. common stock included in the Verigy Fund was approximately \$8,585,000 at December 31, 2006. The Verigy Fund assigned units of participation to those participants with account balances in the Verigy Fund. The total number of units in the Verigy Fund at December 31, 2006 was 657,941 and the net unit value was \$13.15.

The Verigy Fund was eliminated effective at the close of the market on April 30, 2007. Any assets remaining in this fund as of the liquidation date were transferred to the Plan default fund.

The following table is a summary of the fair or contract values of investments and investment funds that represent 5% or more of the Plan's net assets at December 31 (in thousands):

| | 2007 | 2006 |
|--|------------|------------|
| Pyramid Intermediate Fixed Income Fund | \$ 108,206 | \$ 115,727 |
| Fidelity Contrafund | 294,034 | 250,461 |
| Fidelity Magellan Fund | 220,723 | 205,936 |
| Fidelity Low-Priced Stock Fund | 131,545 | 150,374 |
| Spartan U.S. Equity Index Advantage Class Fund | 204,161 | 133,875 |
| Templeton Foreign Fund A | 138,483 | 111,132 |
| Agilent Technologies, Inc. common stock | 115,243 | 145,282 |

The Plan's investments (including gains and losses on investments bought and sold, as well as held during the year) appreciated (depreciated) in values as follows for the years ended December 31, (in thousands):

| | 2007 | 2006 |
|------------------------|-----------|-----------|
| Common stock | \$ 8,748 | \$ 15,927 |
| Bank collective funds | 11,083 | 12,279 |
| Collective trust funds | (3,729) | |
| Mutual Funds | 52,690 | 12,949 |
| | \$ 68,792 | \$ 41,155 |

NOTE 6 - RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

The following is a reconciliation of net assets available for benefits per the financial statements to the Form 5500 (in thousands):

| | December 31, | |
|--|--------------|--------------|
| | 2007 | 2006 |
| Net assets available for benefits per the financial statements | \$ 1,891,314 | \$ 1,776,663 |
| Adjustment from contract value to fair value for fully benefit-responsive investment contracts | (3,857) | (4,864) |
| Net assets available for benefits at fair value per the Form 5500 | \$ 1,887,457 | \$ 1,771,799 |

As described in Note 1, fully benefit-responsive investment contracts are reported at fair value in the Form 5500 and are reported at contract value in the financial statements.

The following is a reconciliation of the affected components of the changes in net assets available for benefits per the financial statements to the Form 5500 (in thousands):

| | Year ended December 31, 2007 | | |
|--|--------------------------------------|--------------------------|---------------------------|
| | Amounts per the financial statements | Adjustment to fair value | Amounts per the Form 5500 |
| Unrealized appreciation (depreciation) of assets | \$ 68,792 | \$ 1,007 | \$ 69,799 |

| | Year ended December 31, 2006 | | |
|--|--------------------------------------|--------------------------|---------------------------|
| | Amounts per the financial statements | Adjustment to fair value | Amounts per the Form 5500 |
| Unrealized appreciation (depreciation) of assets | \$ 41,155 | \$ (4,864) | \$ 36,291 |

NOTE 7 - PLAN TERMINATION OR MODIFICATION

The Company intends to continue the Plan indefinitely for the benefit of its participants; however, it reserves the right to terminate or modify the Plan at any time by resolution of its Board of Directors and subject to the provisions of ERISA.

NOTE 8 - SUBSEQUENT EVENT

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The Company has filed an application for a new favorable determination letter with the Internal Revenue Service on January 31, 2008.

AGILENT TECHNOLOGIES, INC.
401(k) PLAN

EIN: 77-0518772
PLAN #003

SCHEDULE H, LINE 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
DECEMBER 31, 2007
(in thousands)

| | Identity of issue, borrower, lessor or similar party | Description of investment including maturity date, rate of interest, collateral, par or maturity value | Current Value |
|---|--|---|------------------|
| | Stable Value Fund Holdings: | | |
| * | Fidelity Institutional Money Market | Short-Term Investment | \$ 3,239 |
| | Pyramid Intermediate Fixed Income Fund | Bank Collective Fund | 108,206 |
| | Pyramid Short Managed Maturing | Bank Collective Fund | 32,288 |
| | Pyramid Intermediate Managed Maturing | Bank Collective Fund | 31,197 |
| | Total bank collective funds | | 171,691 |
| | Natixis BRIC Contract | | |
| | Thornburg Mortgage Securities Trust | Fixed Income Investments | 1,651 |
| | GS Mortgage Securities Corporation II | Fixed Income Investments | 44 |
| | Master Asset Backed Securities Trust | Fixed Income Investments | 1,191 |
| | Saxon Asset Securities Trust | Fixed Income Investments | 1,734 |
| | Total fixed income investments | | 4,620 |
| | Total fair value of underlying assets of Stable Value Fund | | 179,550 |
| | Barclays Global Investors US Debt Index | Bank Collective Fund | 15,661 |
| | Barclays Global Investors EAFE Equity Index | Bank Collective Fund | 91,834 |
| | State Street Global Advisors TIPS Fund | Bank Collective Fund | 18,938 |
| | Harbor Capital Appreciation Fund | Mutual Fund | 31,089 |
| | Templeton Foreign Fund A | Mutual Fund | 138,483 |
| | PIMCO Total Return Fund | Mutual Fund | 93,168 |
| | Domini Social Equity Fund | Mutual Fund | 6,922 |
| | Goldman Sachs US Small Cap Value Equity Fund | Mutual Fund | 29,565 |
| | Copper Rock Small Cap Growth Collective Trust Fund | Collective Trust Fund | 44,696 |
| * | Fidelity Institutional Money Market Fund | Money Market | 642 |
| * | Agilent Technologies, Inc. common stock | Common Stock | 115,243 |
| * | Fidelity Magellan Fund | Mutual Fund | 220,723 |
| * | Fidelity Contrafund | Mutual Fund | 294,034 |
| * | Fidelity Low-Priced Stock Fund | Mutual Fund | 131,545 |
| * | Spartan Extended Market Index | Mutual Fund | 72,156 |
| * | Spartan U.S. Equity Index Advantage Class Fund | Mutual Fund | 204,161 |
| * | Fidelity Freedom Income Fund | Mutual Fund | 1,686 |
| * | Fidelity Freedom 2000 | Mutual Fund | 931 |
| * | Fidelity Freedom 2010 | Mutual Fund | 18,315 |
| * | Fidelity Freedom 2020 | Mutual Fund | 30,178 |

| | | | |
|---|--|--------------|-----------|
| * | Fidelity Freedom 2030 | Mutual Fund | 12,291 |
| * | Fidelity Freedom 2040 | Mutual Fund | 8,301 |
| * | Fidelity Freedom 2005 | Mutual Fund | 4,178 |
| * | Fidelity Freedom 2015 | Mutual Fund | 22,763 |
| * | Fidelity Freedom 2025 | Mutual Fund | 24,262 |
| * | Fidelity Freedom 2035 | Mutual Fund | 8,207 |
| * | Fidelity Freedom 2045 | Mutual Fund | 549 |
| * | Fidelity Freedom 2050 | Mutual Fund | 1,616 |
| AllianceBernstein US Value Equities Portfolio | | | |
| * | Fidelity Institutional Money Market Fund | Money Market | <u>52</u> |
| | AT&T Inc. | Common Stock | 1,908 |
| | Abbott Laboratories | Common Stock | 34 |
| | Alcoa Inc. | Common Stock | 471 |
| | Allied Waste Industries Inc. | Common Stock | 247 |
| | Allstate Corp | Common Stock | 491 |
| | Altria Group Inc. | Common Stock | 930 |
| | American Electric Power Co Inc. | Common Stock | 410 |
| | Amer Intl Group Inc. | Common Stock | 1,090 |
| | Amerisourcebergen Corp | Common Stock | 323 |
| | Ameriprise Financial Inc. | Common Stock | 342 |
| | Apple Inc. | Common Stock | 218 |
| | Arrow Electronics Inc. | Common Stock | 291 |
| | Ashland Inc. | Common Stock | 180 |
| | ATMOS Energy Corp | Common Stock | 154 |
| | Autoliv Inc. | Common Stock | 242 |
| | Autonation Inc. | Common Stock | 177 |
| | Avis Budget Group | Common Stock | 81 |
| | Avnet Inc. | Common Stock | 266 |
| | BP PLC Spon Adr | Common Stock | 278 |
| | Ball Corp | Common Stock | 275 |
| | Bank of America Corp | Common Stock | 1,415 |
| | Bemis Inc. | Common Stock | 170 |
| | Black & Decker Corp | Common Stock | 251 |
| | Brunswick Corp | Common Stock | 92 |
| | CBS Corp | Common Stock | 395 |
| | Cardinal Health Inc. | Common Stock | 323 |
| | Caterpillar Inc. | Common Stock | 392 |
| | Chevron Corp | Common Stock | 1,540 |
| | Chubb Corp | Common Stock | 442 |
| | CISCO Systems Inc. | Common Stock | 238 |
| | CITIGROUP Inc. | Common Stock | 1,110 |
| | Cleveland-Cliffs Inc. | Common Stock | 262 |
| | Clorox Co | Common Stock | 176 |
| | Coca Cola Co | Common Stock | 160 |
| | ComCast Corp | Common Stock | 469 |
| | Ace Ltd | Common Stock | 426 |
| | Conoco Phillips | Common Stock | 1,201 |
| | Flextronics International Ltd | Common Stock | 294 |
| | Dean Foods Co | Common Stock | 212 |

| | | |
|-------------------------------|--------------|-------|
| Disney (Walt) Co | Common Stock | 558 |
| Discover Fin Svcs | Common Stock | 121 |
| Everest Reinsurance Group Ltd | Common Stock | 141 |
| Dow Chemical Co | Common Stock | 493 |
| Dupont EI De Nemours & Co | Common Stock | 489 |
| Partner RE Ltd | Common Stock | 281 |
| Eaton Corp | Common Stock | 388 |
| Deutsche Bank AG (USA) | Common Stock | 311 |
| Ingersoll Rand Co Ltd | Common Stock | 358 |
| Electronic Data Systems Corp | Common Stock | 330 |
| EMBARQ Corp | Common Stock | 327 |
| Ericsson (LM) Tel Co | Common Stock | 276 |
| Exxon Mobil Corp | Common Stock | 2,548 |
| Fannie Mae | Common Stock | 508 |
| Gannett Inc. | Common Stock | 332 |
| GAP Inc. | Common Stock | 396 |
| General Electric Co. | Common Stock | 2,421 |
| General Motors Corp | Common Stock | 319 |
| Genworth Financial Inc. | Common Stock | 349 |
| Glaxosmithkline PLC | Common Stock | 282 |
| Goldman Sachs Group Inc. | Common Stock | 387 |
| Google Inc. | Common Stock | 207 |
| Hartford Finl Svcs Group Inc. | Common Stock | 436 |
| Hess Corp | Common Stock | 545 |
| Hewlett-Packard Co | Common Stock | 141 |
| Hubbell Inc. | Common Stock | 77 |
| IDEARC Inc. | Common Stock | 155 |
| Ingram Micro Inc. | Common Stock | 206 |
| Intel Corp | Common Stock | 192 |
| IBM Corp | Common Stock | 724 |
| JP Morgan Chase & Co | Common Stock | 1,196 |
| Johnson & Johnson | Common Stock | 634 |
| Jones Apparel Group Inc. | Common Stock | 158 |
| KB Home | Common Stock | 117 |
| Kellogg Co | Common Stock | 173 |
| Kraft Foods Inc. | Common Stock | 62 |
| Kroger Co | Common Stock | 339 |
| Leggett & Platt Inc | Common Stock | 183 |
| LexMark International Inc. | Common Stock | 202 |
| Lockheed Martin Corp | Common Stock | 368 |
| Macys Inc. | Common Stock | 310 |
| Marathon Oil Corp | Common Stock | 280 |
| Mattel Inc. | Common Stock | 305 |
| McDonalds Corp | Common Stock | 106 |
| McKesson Corp | Common Stock | 347 |
| Merck & Co Inc. | Common Stock | 662 |
| MetLife Inc. | Common Stock | 487 |
| Microsoft Corp | Common Stock | 926 |
| Morgan Stanley | Common Stock | 632 |
| National Semiconductor Corp | Common Stock | 297 |

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| | | |
|---|---|-----------|
| Northrop Grumman Corp | Common Stock | 440 |
| Occidental Petroleum Corp | Common Stock | 115 |
| Office Depot Inc. | Common Stock | 228 |
| Oracle Corp | Common Stock | 43 |
| Paccar Inc. | Common Stock | 365 |
| Pepsico Inc. | Common Stock | 425 |
| Pfizer Inc. | Common Stock | 1,257 |
| Pitney-Bowes Inc. | Common Stock | 304 |
| Procter & Gamble Co | Common Stock | 1,373 |
| Progressive Corp Ohio | Common Stock | 395 |
| Rowan Companies Inc. | Common Stock | 225 |
| Royal Dutch Shell Plc ADR | Common Stock | 286 |
| Sara Lee Corp | Common Stock | 337 |
| Schlumberger Ltd | Common Stock | 108 |
| Sonoco Products Co | Common Stock | 196 |
| Sovereign Bancorp Inc. | Common Stock | 138 |
| Sprint Nextel Corp | Common Stock | 458 |
| SuperValu Inc. | Common Stock | 338 |
| Target Corp | Common Stock | 290 |
| Terex Corp | Common Stock | 282 |
| 3M Co | Common Stock | 455 |
| Time Warner Inc. | Common Stock | 76 |
| TorchMark Corp | Common Stock | 315 |
| Total SA Spons ADR | Common Stock | 314 |
| Toyota Motor Corp | Common Stock | 276 |
| Travelers Companies Inc. | Common Stock | 527 |
| Tyson Foods Inc. | Common Stock | 202 |
| United Parcel Service Inc. | Common Stock | 304 |
| UNUM Group | Common Stock | 335 |
| Verizon Communications Inc. | Common Stock | 1,066 |
| Viacom Inc. | Common Stock | 382 |
| Vodafone Group | Common Stock | 284 |
| Wachovia Corp | Common Stock | 734 |
| Wal Mart Stores Inc. | Common Stock | 689 |
| Wellpoint Inc. | Common Stock | 314 |
| Wells Fargo & Co | Common Stock | 555 |
| Total fair value of Common Stock | | 54,489 |
| Total fair value of AllianceBernstein US Value Equities | | 54,541 |
| Cash | Interest bearing cash | 1,110 |
| * Participant loans | Interest rates ranging from 4.5% to 10% | 10,676 |
| Total \$ | | 1,888,014 |

* Party-in-interest

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

AGILENT TECHNOLOGIES, INC
401(k) PLAN

Dated: June 19, 2008

By:

/s/ HILLIARD C. TERRY, III
Hilliard C. Terry, III
Vice President, Treasurer

EXHIBIT INDEX

| Exhibit Number | Description |
|---------------------------|---|
| 23.1 | Consent of Mohler, Nixon & Williams Accountancy Corporation |