## Annual Investment Report

# North Carolina Department of State Treasurer 

Fiscal Year 2007-2008
July 1, 2007 - June 30, 2008


The Honorable Richard H. Moore North Carolina State Treasurer

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[^0]In my tenure as State Treasurer, I have undertaken many steps to increase the amount and quality of information about our operations made available to the public. This Annual Investment Report (AIR) is another important step in that effort. It will provide the public with more knowledge about our pension fund and its investments.

Within the AIR, readers will find detailed information about the investments held by the North Carolina Retirement Systems (NCRS). The information is provided to give the public employees who are members of the NCRS, as well as the citizens of North Carolina, a comprehensive view of the State's $\$ 72.3$ billion retirement trust fund. You will find information about investment strategy, the design of our overall investment portfolio and the performance of the firms who manage money for the NCRS.

I am pleased to report that the NCRS remains fully funded - one of only a handful of state retirement systems that can make such a statement. In the calendar year that ended December 31, 2007, the funding ratio stood at 104 percent, meaning that we have more than enough assets on hand to meet our projected liabilities. I will continue to work diligently with Chief Investment Officer Patricia Gerrick and her excellent staff to ensure the continued strength and security of our state retirement systems.

Sincerely,


Richard H. Moore

## Structure of the Fund

The Investment Management Division serves as the investment arm of the Department of State Treasurer. It is responsible for managing the combined assets of the North Carolina Retirement Systems. This is referred to as the Trust Fund Investment Program (the Trust Fund). At the end of the fiscal year closing June 30, 2008 total assets of the Trust Fund Investment Program were $\$ 72.3$ billion.

Within the Trust Fund, assets are divided into different classes of investments:

| Portfolio | Investment Mandate | Examples | Managed |
| :--- | :---: | :---: | :---: |
| Short-Term <br> Investment Fund | Highly Liquid Money <br> Market Instruments | Treasuries, Agencies, Short-Term Corporate <br> Issues | Internally |
| Long-Term <br> Investment Fund | Longer Term <br> Investments | Investment Grade Corporate Securities, <br> Treasuries, Agencies, GNMAs | Internally |
| Equity Investment <br> Portfolio | Equity Securities | Fiduciary Relationships with experienced <br> investment advisors | Externally |
| Real Estate <br> Investment Portfolio | Real Estate | Limited Partnerships managed by experienced <br> real estate advisors | Externally |
| Alternative <br> Investment Portfolio | Private Equity; Hedge <br> Funds | Limited Partnerships managed by experienced <br> private equity advisors, Hedge Fund of Funds | Externally |

## Overall Fund Strategy

The tradition of conservative fiscal management has served North Carolina's public workers and taxpayers well through the years. The Trust Fund continues that tradition today with a heavy allocation in fixed income assets (bonds) combined with allocations to modern investments, like real estate and alternatives, as well as an increasingly diversified portfolio. The result of this strategy is a fund that is a top performer in turbulent economic times, and steady in bull markets.

We have no pension fund liability - or pension gap - to make up. Our goal is to simply maintain the long-term strength of the retirement systems by providing a steady long-term return of 7.25 percent while simultaneously minimizing risk in the portfolio.

Many other public retirement funds have sought to make up large pension gaps through heavier allocations in equities (stocks), real estate and alternative investments, such as hedge funds and private equity funds. The new asset classes have the potential to post high returns, and can seem very attractive in a strong economy. However, they are also capable of posting negative results and, if used improperly, can greatly increase overall portfolio risk. The challenge for any investor is to find the appropriate balance between risk and return.

Recent reports and rankings demonstrate the wisdom of North Carolina's longterm strategy. In Standard \& Poor's annual rankings of state retirement fund funding ratios, North Carolina placed second for the third consecutive year. More recently, Wilshire, the most widely accepted benchmark for the performance of institutional assets, reported that North Carolina was in the top quarter of performers for the fiscal year ended June 30, 2008. In a year when the average public fund lost $4.5 \%$ and the S\&P 500 lost more than $13 \%$, our fund lost only $2 \%$. Our strong performance in such a tough year demonstrates the success of our effort to maintain a well-balanced portfolio that minimizes risk.

Specifically, the Trust Fund's fixed income holdings posted an 8.35 percent return for the year, while the equity portfolio, or stocks, lost 10.45 percent. The alternatives and real estate portfolios had 7.60 percent and 8.74 percent returns respectively. The relatively young real estate and alternatives investment programs will provide increasingly strong returns over the next several years, as these types of investments typically take several years to realize maximum results. These investments also diversify the overall portfolio, helping to produce steadier returns over the long term. As of June 30, 2008, North Carolina's fiveyear return is 8.21 percent.

## Review of the Past Year

The fiscal year ended June 30, 2008 saw significant turmoil and losses in markets across the globe. The mortgage crisis and tightening credit, declines in the stock
market, a weakening dollar and increasing inflation made it a tough year for investors across the spectrum. However, the Trust Fund's conservative investment strategy mitigated losses in the equity portfolio and provided solid returns from fixed income, alternatives and real estate. This allowed us to outpace the majority of our peer funds who are positioned to outperform in up market cycles.

Many fixed income investors were hit particularly hard by collapses in certain mortgage-backed securities and other credit instruments. The Trust Fund avoided these pitfalls and took no direct losses from mortgage-backed securities, such as Collateralized Debt Obligations (CDOs) and Structured Investment Vehicles (SIVs). The Trust Fund's staff declined offers to invest in these securities in earlier years, which proved to be a wise decision.

The year did see the Trust Fund make a number of significant new investments and continue its effort to balance the portfolio with a greater emphasis on diversifying into alternative asset classes, increasing exposure to international and emerging markets, and reallocating passive investments to active strategies.

## Looking Forward to the Year Ahead

Though the Trust Fund performed relatively well during the significantly volatile and arduous fiscal year in the financial markets, the Investment Division is committed to enhancing the portfolio to perform well in all types of market environments. Throughout the 2009 fiscal year, the Investment Division will continue to focus on reducing overall portfolio risk, while creating a stronger position to outperform in an up market environment.

With the Federal Reserve Board holding the federal funds rate steady at a relatively low level as of the 2008 fiscal year end, the fixed income management team will focus on protecting its longer duration portfolio against a possible rising interest rate environment. The Investment Division will utilize more credit research resources to identify and capitalize on market inefficiencies during this possible difficult period for bond prices.

In the equity market, growth-oriented securities outperformed value-focused securities considerably. The Trust Fund benefited from the growth stocks' performance, but the Investment Division will evaluate the Fund's bias to the
growth equity style as the market potentially adjusts prices. The Investment Division will also concentrate on increasing its global equity management allocation within the Equity Investment Portfolio. By utilizing a global approach, external investment managers can increase their opportunity set when searching for strong investments. As companies increasingly participate on a global stage, this strategy allows managers to evaluate whether companies within industries and sectors would truly be strong investment opportunities on a global basis. In addition, given this flexibility in a portfolio, global equity managers can effectively reduce risk through diversification and position themselves for potentially greater returns.

In the private equity market, the Investment Division was successful in securing high-quality fund relationships throughout the fiscal year 2008. The private equity team will continue its concentration on opportunistic funds and coinvestment opportunities with existing relationships.

During the next fiscal year, the Investment Division will update the 2005 asset optimization study to reflect market revaluation and the Trust Fund's liabilities. As the Investment Division seeks to increase allocations to strategies that, by themselves, might hold greater volatility, the Division remains steadfast in the fundamental concepts that these strategies' low correlation with others provides the diversification to effectively reduce overall portfolio risk, while concurrently increasing the potential for better portfolio performance.

The Division will also continue its Legislative efforts by requesting a review of existing investment authority and definition of risk. Success with this initiative will allow the overall portfolio greater mobility in navigating a more volatile and evolving investment environment. The goal, as always, is to improve risk adjusted returns and minimize the volatility of required contributions. Achievement of this goal will allow Plan participants and taxpayers to reap the financial benefits of a well managed and fully funded defined benefit plan.

The majority of the Trust Fund's fixed income allocation is invested in the Long Term Investment Fund ("LTIF") and includes allocations to the Short Term Investment Fund ( $\$ 0.9$ billion) and the Campbell Timber Fund III ( $\$ 0.5$ billion). As of June 30, 2008, the LTIF comprised a market value of $\$ 27.1$ billion, representing 37.4\% of the Trust Fund's assets. For the fiscal year 2008, the LTIF returned 8.4\%, net of fees, outperforming its custom benchmark return of 7.5\%. Over longer time periods, the LTIF continues its strong relative performance and adding value to the Trust Fund as it outperforms the benchmark over all of the respective time periods.

## LTIF Summary of Brokers Utilized During Fiscal Year 2008

| AG Edwards | Goldman Sachs | Morgan Keegan |
| :--- | :--- | :--- |
| Bank of America | HSBC Securities | Morgan Stanley |
| Barclays Capital | JPMorgan Chase | RBC Capital Markets |
| Bear Stearns | LaSalle Financial | RBS Greenwich Capital |
| Citigroup | Lehman Brothers | Stifel Nicolaus |
| Countrywide Sec. | Loop Capital Markets | Suntrust Capital Markets |
| Credit Suisse Sec. | KeyBanc Cap Mkts | UBS Securities |
| Deutsche Bank Sec. | Merrill Lynch | Wachovia Capital Markets |
| First Tennessee Bank | Mizuho Securities | Williams Capital Group |

LTIF Top 10 Corporate Positions as of June 30, 2008

| Corporate Issuer | Market Value (\$) | \% of LTIF |
| :--- | :---: | :---: |
| JPMorgan | $367,173,731$ | $1.3 \%$ |
| General Electric | $344,119,501$ | $1.2 \%$ |
| Bank of America | $323,680,408$ | $1.1 \%$ |
| AT\&T | $307,919,879$ | $1.1 \%$ |
| Citigroup | $296,396,789$ | $1.0 \%$ |
| Wal-Mart Stores | $258,132,036$ | $0.9 \%$ |
| Goldman Sachs Grp | $257,303,329$ | $0.9 \%$ |
| Verizon Comm | $220,542,874$ | $0.8 \%$ |
| Morgan Stanley | $185,357,418$ | $0.6 \%$ |
| Wachovia Bank | $180,991,614$ | $0.6 \%$ |

Please see the appendix for a list of all fixed income holdings.

This asset class primarily consists of stock holdings in domestic and foreign corporations. All investments of the Equity Investment Portfolio (EIP) are managed externally in closed funds according to one of three different strategies: passive, enhanced or active. Passive investments track existing indexes in relatively efficient markets. Enhanced indexes allow managers some flexibility to make decisions that deviate from the index, but maintain more control of market risk than active management. Actively managed funds give the manager discretion to make investment decisions within the parameters of the fund's mandate.

## Equity Strategy Allocation



The EIP maintains prudent diversification within the broad equity market. The EIP is also broken down into U.S. Large-Cap, U.S. Mid-Cap, U.S. Small-Cap, and NonU.S. investments. U.S. investments make up the large majority of equity investments, though the international investments have grown in recent years.

Please see the appendix for a full list of equity holdings.

## PUBLIC EQUITY

AS OF 6/30/2008

| Manager | Vintage Year | $\begin{aligned} & \text { Market Value } \\ & \text { Size } \\ & \hline \end{aligned}$ |  | Time Weighted 1-YR Performance | FeesFiscal Year End 6/30/2008 |  | Base Fee |  | S Incentive |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALLIANCE |  |  |  |  |  |  |  |  |  |  |
| ALLIANCE DISCIPLINED VALUE | 1987 | \$ | 1,822,463,990 | (17.03) | \$ | 1,245,281 | \$ | 1,245,281 | \$ | - |
| ALLIANCE LARGE CAP PASSIVE* | 1987 | \$ | - | - | \$ | 42,959 | \$ | 42,959 | \$ | - |
| ALLIANCE INTERNATIONAL | 1994 | \$ | 1,389,026,520 | 1.24 | \$ | 1,442,964 | \$ | 1,442,964 | \$ | - |
| ALLIANCE EMERGING | 1994 | \$ | 608,190,193 | 6.09 | \$ | 639,495 | \$ | 639,495 | \$ | - |
| ANGELO GORDAN |  |  |  |  |  |  |  |  |  |  |
| AG GLOBALSTRATEGY PARTNERS | 2007 | \$ | 236,327,086 | (5.47) | \$ | 1,338,383 | \$ | 1,338,383 | \$ | - |
| AG SMID GROWTH | 2007 | \$ | 225,839,011 | - | \$ | 1,022,086 | \$ | 1,022,086 | \$ | - |
| ARIEL |  |  |  |  |  |  |  |  |  |  |
| ARIEL SMALL CAP VALUE * | 2002 | \$ | - | - | \$ | 220,403 | \$ | 220,403 | \$ | - |
| BAILLIE GIFFORD |  |  |  |  |  |  |  |  |  |  |
| BAILLIE GIFFORD EMERGING | 2008 | \$ | 299,782,234 | - | \$ | 273,842 | \$ | 273,842 | S |  |
| BAILLIE GIFFORD EAFE | 2007 | \$ | 995,237,278 | (1.46) | \$ | 3,302,540 | \$ | 3,302,540 | \$ | - |
| BANK OF AMERICA |  |  |  |  |  |  |  |  |  |  |
| BOA LARGE CAP PASSIVE | 1981 | \$ | 2,086,714,313 | (13.13) | \$ | 350,000 | \$ | 350,000 | S | - |
| BOA MID CAP PASSIVE | 2001 | \$ | 614,885,038 | (7.29) | \$ | 250,568 | \$ | 250,568 | \$ | - |
| BARCLAYS GLOBAL INVESTORS |  |  |  |  |  |  |  |  |  |  |
| BGI Russell 3000 ALPHA TILTS | 2006 | \$ | 2,056,418,730 | (15.04) | \$ | 6,960,535 | \$ | 6,960,535 | \$ | - |
| BGI EAFE INDEX FUND | 2007 |  | 722,117,075 | - | \$ | - | \$ | - | \$ | - |
| BGI NON US EQUITY | 2006 | \$ | 1,271,686,490 | (11.86) | \$ | 5,514,874 | \$ | 5,514,874 | \$ | - |
| BGI Transition (S\&P Futures) | 2007 | \$ | 608,263,878 | - | \$ | - | \$ | - | \$ | - |
| CAP GUARDIAN |  |  |  |  |  |  |  |  |  |  |
| CAP GUARDIAN INTERNATIONAL | 2002 | \$ | 1,265,933,636 | (4.13) | \$ | 4,559,776 | \$ | 4,559,776 | \$ | - |
| CAP GUARDIAN LARGE CAP** | 2002 | \$ | 46,796 | - | \$ | 3,233,221 | \$ | 3,233,221 | \$ | - |
| EARNEST |  |  |  |  |  |  |  |  |  |  |
| EARNEST PARTNERS SMALL CAP VALUE | 2002 | \$ | 298,700,393 | (9.40) | \$ | 1,674,120 | \$ | 1,674,120 | \$ | - |
| FIRST CITIZENS |  |  |  |  |  |  |  |  |  |  |
| FIRST CITIZENS LARGE CAP PASSIVE | 2001 | \$ | 3,004,326,357 | (13.07) | \$ | 726,132 | \$ | 726,132 | \$ | - |
| GMO |  |  |  |  |  |  |  |  |  |  |
| GMO INTERNATIONAL | 2002 | \$ | 1,549,276,413 | (10.94) | \$ | 3,696,864 | \$ | 3,696,864 | \$ | - |
| HOTCHKIS \& WILEY |  |  |  |  |  |  |  |  |  |  |
| HOTCHKIS \& WILEY LARGE CAP VALUE | 2008 | \$ | 253,809,197 | - | \$ | 171,734 | \$ | 171,734 | \$ | - |
| HOTCHKIS \& WILEY MID CAP VALUE | 2003 | \$ | 339,986,340 | (33.96) | \$ | 1,275,607 | \$ | 1,275,607 | \$ | - |
| INVESCO |  |  |  |  |  |  |  |  |  |  |
| INVESCO EAFE CORE | 2007 | \$ | 690,450,741 | (13.11) | \$ | 2,581,434 | \$ | 2,581,434 | \$ | - |
| JFL |  |  |  |  |  |  |  |  |  |  |
| JFL INTERNATIONAL** | 2002 | \$ | 443,491 | - | \$ | 650,991 | \$ | 650,991 | \$ | - |
| LONGVIEW |  |  |  |  |  |  |  |  |  |  |
| LONGVIEW GLOBAL EQUITY | 2007 | \$ | 219,284,343 | (13.49) | \$ | 1,800,079 | \$ | 1,800,079 | \$ | - |


| MONDRIAN |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MONDRIAN EAFE VALUE | 2007 | \$ | 701,769,531 | (12.91) | \$ | 2,352,707 | \$ | 2,352,707 | \$ | - |
| NUMERIC |  |  |  |  |  |  |  |  |  |  |
| NUMERIC SMALL CAP VALUE | 2007 | \$ | 134,748,258 | (25.67) | \$ | 1,064,192 | \$ | 1,064,192 | \$ | - |
| NUMERIC SMALL CAP GROWTH | 2007 | \$ | 79,903,196 | (19.04) | \$ | 761,728 | \$ | 761,728 | \$ | - |
| OECHSLE |  |  |  |  |  |  |  |  |  |  |
| OECHSLE EAFE GROWTH | 2007 | \$ | 652,777,554 | (18.26) | \$ | 2,915,545 | \$ | 2,915,545 | \$ | - |
| PIEDMONT |  |  |  |  |  |  |  |  |  |  |
| PIEDMONT LARGE CAP | 2002 | \$ | 435,520,987 | (6.60) | \$ | 963,115 | \$ | 963,115 | \$ | - |
| SANDS |  |  |  |  |  |  |  |  |  |  |
| SANDS LARGE CAP GROWTH | 2006 | \$ | 828,642,939 | (0.76) | \$ | 4,479,572 | \$ | 4,479,572 | \$ | - |
| SSGA |  |  |  |  |  |  |  |  |  |  |
| SSGA SMALL CAP PASSIVE | 2003 | \$ | 564,218,997 | (16.77) | \$ | 250,000 | \$ | 250,000 | \$ | - |
| STERLING |  |  |  |  |  |  |  |  |  |  |
| STERLING SMALL CAP VALUE | 2002 | \$ | 261,561,578 | (26.63) | \$ | 1,609,818 | \$ | 1,609,818 | \$ | - |
| TIMESSQUARE |  |  |  |  |  |  |  |  |  |  |
| TIMESSQUARE MID CAP GROWTH | 2007 | \$ | 211,966,978 | - | \$ | 1,085,541 | \$ | 1,085,541 | \$ | - |
| TIMESSQUARE MID CAP FOCUSED | 2007 | \$ | 65,499,335 | - | \$ | 511,360 | , | 511,360 | \$ | - |
| TURNER INVESTMENTS |  |  |  |  |  |  |  |  |  |  |
| TURNER QUANT MICROCAP | 2007 | \$ | 99,433,604 | - | \$ | 694,846 | \$ | 694,846 | \$ | - |
| TURNER LARGE CAP GROWTH | 2006 | \$ | 815,962,571 | (10.00) | \$ | 4,756,466 | , | 4,756,466 | \$ | - |
| WACHOVIA |  |  |  |  |  |  |  |  |  |  |
| EVERGREEN 400 MID CAP PASSIVE | 2001 | \$ | 1,430,552,904 | (7.31) | \$ | 516,701 | \$ | 516,701 | \$ | - |
| EVERGREEN RUSSELL 200 ENHANCED | 2007 | \$ | 841,845,236 | - | \$ | 460,128 | \$ | 460,128 | \$ | - |
| EVERGREEN LARGE CAP PASSIVE | 2002 | \$ | 2,579,344,047 | (13.14) | \$ | 639,731 | \$ | 639,731 | \$ | - |
| WALTER SCOTT |  |  |  |  |  |  |  |  |  |  |
| WALTER SCOTT INTERNATIONAL | 2002 | \$ | 453,879,305 | (0.21) | \$ | 1,782,704 | \$ | 1,782,704 | \$ | - |
| WELLINGTON |  |  |  |  |  |  |  |  |  |  |
| WELLINGTON MID CAP | 1988 | \$ | 874,770,750 | (11.02) | \$ | 2,689,933 | \$ | 2,689,933 | \$ | - |
| WELLINGTON BIOTECH | 1999 | \$ | 392,745,201 | (7.71) | \$ | 2,084,576 | \$ | 2,084,576 | \$ | - |
| WELLINGTON INTERNATIONAL | 1987 | \$ | 1,193,977,805 | (9.68) | \$ | 3,597,718 | \$ | 3,597,718 | \$ | - |
| WELLINGTON SMALL CAP 2000* | 1988 | \$ | - | - | \$ | 460,302 | \$ | 460,302 | \$ | - |
| WELLINGTON GROWTH | 1999 | \$ | 1,366,003,957 | (1.99) | \$ | 4,863,894 | \$ | 4,863,894 | \$ | - |
| WELLINGTON SMALL CAP INTERSECTION | 1999 | \$ | 415,937,826 | (18.94) | \$ | 1,919,365 | \$ | 1,919,365 | \$ | - |
| WELLINGTON TECHNICAL EQUITY | 2007 | \$ | 1,139,574,057 | 7.47 | \$ | 4,438,877 | \$ | 4,438,877 | \$ | - |

[^1]This asset class consists of investments in many different types of real estate, ranging from residential and commercial properties to timber and hotels. The Real Estate Investment Portfolio (REIP) is an actively managed portfolio of open and closed-end funds sponsored by leading management firms. The REIP also includes a limited number of separate accounts representing specific strategies such as timber, and real estate investment trusts (REITs).

The pension fund began investing in Real Estate on a limited basis in the early 1990's with investments in passive open-end core real estate funds. In the early 2000's, it was determined a more active real estate strategy could add considerable value over time. The REIP has grown from 1.9\% of the Trust Fund in 2001 to $5.8 \%$ of the Trust Fund at the end of 2008's fiscal year. As of June 30, 2008, the REIP maintains $\$ 2.3$ billion in outstanding commitments. As of June 30, 2008, the Real Estate Investment Portfolio ("REIP") maintained a market value of $\$ 4.2$ billion, representing $5.8 \%$ of the Trust Fund's assets. For the fiscal year 2008, the REIP returned $8.7 \%$, net of fees, underperforming its custom benchmark return of $9.5 \%$.

The REIP is an actively managed portfolio of open and closed-end funds sponsored by leading management firms. The REIP also includes a limited number of separate accounts representing specific strategies such as timber and real estate investment trusts (REITs). The Real Estate Investment Portfolio maintains strategic allocations to diverse strategies within real estate investment including core, value-added, and opportunistic funds. In addition, the analysis of new investments focuses on location and property types and employs a moderate level of risk. The REIP continues its objective by expanding into a variety of property types including debt, industrial, land, lodging, multi-type, office, residential - multi-family, residential - single-family, retail, and timber.

# REAL ESTATE HOLDINGS 

AS OF 6/30/08

| MANAGER / FUND NAME | Vintage ${ }^{1}$ Inception | $\underset{(\$ 000)}{\text { Commitment }^{2}}$ | Market Value as of $6 / 30 / 08(\$ 000)^{3}$ | 3-Year Performance as of 6/30/08 ${ }^{4}$ | 1-Year Performance as of $6 / 30 / 08{ }^{4}$ | Capital Drawn as of $6 / 30 / 08$ (\$000) | $\begin{aligned} & \text { Distributions } \\ & \text { as of } 6 / 30 / 08(\$ 000) \end{aligned}$ | $\begin{gathered} \text { Remaining } \\ \text { Commitment } \\ \text { as of } 6 / 30 / 08 \text { ( } \$ 000) \end{gathered}$ | 2008 Management Fees 1 yr ending 6/30/2008 ${ }^{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ANGELO, GORDON \& CO |  |  |  |  |  |  |  |  |  |
| ANGELO GORDON CORE PLUS REALTY FUND | 2003 | \$75,000 | \$26,324 | 39.96 | 86.88 | \$66,848 | \$79,914 | \$8,153 | \$234,298 |
| ANGELO GORDON CORE PLUS REALTY FUND $1{ }^{\text {b }}$ | 2007 | \$100,000 | \$23,902 | NA | NA | \$25,958 | \$2,500 | \$70,042 | \$241,917 |
| AMERICAN VALUE PARTNERS |  |  |  |  |  |  |  |  |  |
| AMERICAN VALUE PARTNERS FUND I, LP ${ }^{8}$ | 2007 | \$50,000 | \$5,591 | NA | NA | \$6,262 | \$0 | \$43,950 | \$347,446 |
| BENSON ELLIOT CAPITAL MANAGEMENT BENSON ELLIOT REAL ESTATE PARTNERS II LP | 2006 | \$62,935 | \$31,274 | NA | 17.53 | \$28,582 | \$0 | \$46,781 | \$1,699,827 |
| THE BLACKSTONE GROUP |  |  |  |  |  |  |  |  |  |
| BLACKSTONE REAL ESTATE PARTNERS V | 2006 | \$100,000 | \$112,227 | NA | 10.32 | \$74,999 | \$13,283 | \$26,010 | \$551,117 |
| BLACKSTONE REAL ESTATE PARTNERS VI | 2007 | \$200,000 | \$93,554 | NA | 14.36 | \$82,452 | \$3,347 | \$117,611 | \$4,166,667 |
| CAMBELL GROUP |  |  |  |  |  |  |  |  |  |
| CAMBELL TIMBER FUND III | 2007 | \$500,000 | \$540,596 | NA | 8.12 | \$500,000 | \$0 | \$0 | \$5,185,279 |
| CB RICHARD ELLIS GROUP INC |  |  |  |  |  |  |  |  |  |
| CBRE STRATEGIC PARTNERS US IV LP | 2005 | \$150,000 | \$156,959 | NA | 11.30 | \$138,439 | \$0 | \$11,561 | \$1,657,113 |
| CBRE STRATEGIC PARTNERS US V LP ${ }^{\text {8 }}$ | 2007 | \$100,000 | \$12,130 | NA | NA | \$12,833 | \$0 | \$87,167 | \$644,442 |
| CHEROKEE INVESTMENT PARTNERS |  |  |  |  |  |  |  |  |  |
| CHEROKEE INV PARTNERS III | 2002 | \$50,000 | \$18,652 | (10.30) | (17.07) | \$32,613 | \$7,087 | \$19,405 | \$199,934 |
| CHEROKEE INV PARTNERS IV LP | 2005 | \$100,000 | \$0 | NA | NA | \$3,860 | \$37 | \$96,141 | \$1,476,837 |
| CIGNA REALTY INVESTORS |  |  |  |  |  |  |  |  |  |
| CIGNA REALTY INVESTORS OPEN-END FUND ${ }^{\text {/,9 }}$ | 1987 | \$243,938 | \$295 | NA | NA | \$243,939 | \$280,612 | \$0 | \$0 |
| CIM GROUP |  |  |  |  |  |  |  |  |  |
| CIM URBAN REIT LLC | 2006 | \$100,000 | \$55,644 | NA | (19.02) | \$53,947 | \$2,375 | \$46,053 | \$494,267 |
| CROSSHARBOR CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |
| CROSSHARBOR INSTITUTIONAL PARTNERS LP | 2006 | \$50,000 | \$21,777 | NA | 7.65 | \$24,482 | \$2,784 | \$25,745 | \$596,372 |
| CROW HOLDINGS |  |  |  |  |  |  |  |  |  |
| CROW HOLDINGS REALTY PARTNERS IV LP | 2006 | \$80,000 | \$54,127 | NA | 0.23 | \$53,739 | \$0 | \$26,452 | \$191,082 |
| CROW HOLDINGS REALTY PARTNERS IV-A LP | 2006 | \$20,000 | \$13,508 | NA | 0.07 | \$13,435 | \$0 | \$6,613 | \$47,770 |
| CROW HOLDINGS REALTY PARTNERS V, LP ${ }^{\text {8 }}$ | 2008 | \$100,000 | \$0 | NA | NA | \$0 | \$0 | \$100,000 | \$0 |
| DEUTSCHE BANKIRREEF |  |  |  |  |  |  |  |  |  |
| DB REAL ESTATE GLOBAL OPP IA\&IB LP | 2003 | \$156,430 | \$31,023 | 62.17 | 38.86 | \$152,238 | \$180,350 | \$4,192 | \$112,652 |
| RREEF GLOBAL OPPORTUNITY FUND II LLC | 2006 | \$200,000 | \$191,453 | NA | 0.38 | \$196,516 | \$1,010 | \$4,854 | \$1,845,071 |
| DLJ REAL ESTATE CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |
| DLJ REAL ESTATE CAPITAL PARTNERS, LP | 1996 | \$25,000 | \$427 | 40.45 | 64.98 | \$25,948 | \$37,784 | \$1,477 | \$0 |
| DLJ REAL ESTATE CAPITAL PARTNERS II, LP | 2000 | \$50,000 | \$11,000 | 37.57 | 18.11 | \$45,465 | \$67,746 | \$8,976 | \$178,982 |
| DLJ REAL ESTATE CAPITAL PARTNERS III, LP | 2005 | \$150,000 | \$136,024 | NA | 11.57 | \$133,979 | \$26,309 | \$19,715 | \$1,283,476 |
| DLJ REAL ESTATE CAPITAL PARTNERS IV, LP ${ }^{\text {8 }}$ | 2007 | \$100,000 | \$11,661 | NA | NA | \$11,807 | \$0 | \$88,193 | \$625,000 |
| DRA ADVISORS |  |  |  |  |  |  |  |  |  |
| DRA GROWTH \& INCOME FUND III LLC | 2000 | \$25,000 | \$8,715 | 25.55 | 42.58 | \$25,188 | \$62,246 | \$0 | \$89,800 |
| DRA GROWTH \& INCOME FUND IV LLC | 2003 | \$50,000 | \$45,130 | 32.55 | 26.07 | \$51,776 | \$42,489 | \$0 | \$701,088 |
| DRA GROWTH \& INCOME FUND V LLC ${ }^{11}$ | 2005 | \$100,000 | \$94,721 | 8.87 | 16.63 | \$98,914 | \$23,993 | \$2,824 | \$2,745,754 |
| DRA GROWTH \& INCOME FUND V CO-INVESTMENT LLC ${ }^{11}$ | 2005 | \$25,000 | \$22,214 | NA | 13.88 | \$20,993 | \$4,735 | \$4,124 | \$398,194 |
| DRA GROWTH \& INCOME FUND VI | 2007 | \$50,000 | \$14,485 | NA | 2.85 | \$15,779 | \$1,551 | \$34,221 | \$395,878 |
| FROGMORE PROPERTY COMPANY LTD |  |  |  |  |  |  |  |  |  |
| FROGMORE REAL ESTATE PARTNERS LP | 2006 | \$45,477 | \$21,917 | NA | (48.57) | \$32,779 | \$0 | \$15,373 | \$708,925 |
| HAWKEYE PARTNERS |  |  |  |  |  |  |  |  |  |
| HAWKEYE PARTNERS' SCOUT FUND I | 2006 | \$50,000 | \$152 | NA | NA | \$0 | \$11 | \$50,000 | \$490,930 |
| JER REAL ESTATE ADVISORS |  |  |  |  |  |  |  |  |  |
| JER REAL ESTATE PARTNERS FUND IIILP | 2004 | \$100,000 | \$49,587 | 23.82 | 17.55 | \$78,751 | \$62,127 | \$22,516 | \$876,206 |
| JER REAL ESTATE PARTNERS FUND IV LP | 2007 | \$100,000 | \$73,620 | NA | (1.22) | \$100,000 | \$25,273 | \$0 | \$1,001,378 |
| JP MORGAN |  |  |  |  |  |  |  |  |  |
| JP MORGAN STRATEGIC PROPERTY FUND ${ }^{\prime}$ | 1989 | \$155,133 | \$196,807 | 15.01 | 12.08 | \$155,133 | \$240,898 | \$0 | \$1,863,499 |
| KTR CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |
| KEYSTONE INDUSTRIAL FUND I, LP | 2006 | \$100,000 | \$86,335 | NA | 11.11 | \$82,598 | \$8,671 | \$20,000 | \$1,500,000 |
| KEYSTONE INDUSTRIAL FUND II, LP | 2006 | \$150,000 | \$0 | NA | $11^{\mathrm{NA}}$ | \$0 | \$0 | \$150,000 | \$1,247,283 |


| LEM REAL ESTATE MEZZANINE FUND II LP | 2006 | \$50,000 | \$16,329 | NA | 2.21 | \$18,000 | \$1,630 | \$32,000 | \$750,000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MORGAN STANLEY |  |  |  |  |  |  |  |  |  |
| MS GLOBAL RE SECURITIES | 2007 | \$400,000 | \$294,980 | NA | (21.02) | \$400,000 | \$0 | \$0 | \$1,933,710 |
| MORGAN STANLEY REAL ESTATE FUND $V$ | 2005 | \$100,000 | \$93,041 | NA | 30.74 | \$92,548 | \$64,833 | \$8,280 | \$948,592 |
| MORGAN STANLEY REAL ESTATE FUND VI | 2007 | \$400,000 | \$190,095 | NA | (20.42) | \$222,781 | \$11,439 | \$178,793 | \$1,868,828 |
| PENWOOD REAL ESTATE INVESTMENT MANAGEMENT |  |  |  |  |  |  |  |  |  |
| CALIFORNIA SELECT INDUSTRIAL PARTNERS ILP | 2005 | \$50,000 | \$24,505 | NA | 11.22 | \$28,646 | \$6,675 | \$21,459 | \$623,959 |
| PENWOOD SELECT INDUSTRIAL PARTNERS II LP ${ }^{\text {8 }}$ | 2007 | \$100,000 | \$1,372 | NA | NA | \$1,973 | \$0 | \$98,138 | \$1,404,453 |
| PRUDENTIAL REAL ESTATE INVESTORS |  |  |  |  |  |  |  |  |  |
| PRUDENTIAL PROPERTY INVESTMENT SEPARATE ACCT | 2004 | \$188,719 | \$139,935 | 48.30 | 16.62 | \$188,719 | \$167,604 | \$0 | \$1,024,281 |
| RLJ DEVELOPMENT LLC |  |  |  |  |  |  |  |  |  |
| RLJ URBAN LODGING FUND LP | 2005 | \$50,000 | \$0 | 241.25 | 3,233.32 | \$49,720 | \$98,909 | \$0 | \$316,721 |
| RLJ LODGING FUND IILP | 2006 | \$50,000 | \$39,919 | NA | 4.71 | \$43,312 | \$6,902 | \$7,410 | \$589,762 |
| RLJ REAL ESTATE FUND III LP ${ }^{\text {8 }}$ | 2007 | \$50,000 | \$0 | NA | NA | \$0 | \$0 | \$50,000 | \$607,449 |
| RMK TIMBERLAND GROUP |  |  |  |  |  |  |  |  |  |
| RMK EMERGING GROWTH TIMBERLAND FUND | 1993 | \$15,000 | \$11,827 | 23.41 | 22.39 | \$15,000 | \$33,975 | \$0 | \$138,959 |
| ROCKPOINT GROUP |  |  |  |  |  |  |  |  |  |
| ROCKPOINT REAL ESTATE FUND ILP | 2004 | \$100,000 | \$28,892 | 20.53 | (19.17) | \$97,434 | \$105,774 | \$5,556 | \$549,633 |
| ROCKPOINT REAL ESTATE FUND IILP | 2005 | \$150,000 | \$118,932 | NA | 9.47 | \$128,345 | \$27,234 | \$24,331 | \$1,518,293 |
| ROCKPOINT REAL ESTATE FUND III LP ${ }^{\text {8 }}$ | 2007 | \$100,000 | \$2,071 | NA | NA | \$2,458 | \$78 | \$97,542 | \$1,428,094 |
| ROCKWOOD CAPITAL |  |  |  |  |  |  |  |  |  |
| ROCKWOOD CAPITAL R.E. PARTNERS VILP | 2005 | \$90,000 | \$78,197 | NA | 15.43 | \$69,882 | \$6,575 | \$20,117 | \$935,000 |
| ROCKWOOD CAPITAL R.E. PARTNERS VIILP | 2006 | \$125,000 | \$83,297 | NA | (2.41) | \$86,696 | \$7 | \$38,301 | \$1,493,500 |
| NORTHROCK CORE FUND, LP ${ }^{\text {b }}$ | 2008 | \$400,000 | \$0 | NA | NA | \$0 | \$0 | \$400,000 | \$0 |
| SECURITY CAPITAL |  |  |  |  |  |  |  |  |  |
| SECURITY CAPITAL FOCUS SELECT | 2007 | \$30,000 | \$26,103 | NA | (12.99) | \$30,000 | \$0 | \$0 | \$231,685 |
| SENTINEL REAL ESTATE CORPORATION |  |  |  |  |  |  |  |  |  |
| SENTINEL REAL ESTATE FUND ${ }^{7}$ | 1985 | \$65,000 | \$146,577 | 12.05 | 11.10 | \$68,122 | \$95,916 | \$0 | \$1,475,355 |
| SENTINEL REALTY V | 1998 | \$50,000 | \$40,015 | 25.47 | 41.16 | \$50,000 | \$79,815 | \$0 | \$389,208 |
| SHORENSTEIN PROPERTIES LLC |  |  |  |  |  |  |  |  |  |
| SHORENSTEIN REALTY INVESTORS VIILP | 2004 | \$75,000 | \$105,007 | 28.47 | 94.53 | \$63,635 | \$6,239 | \$11,490 | \$936,926 |
| SHORENSTEIN REALTY INVESTORS VIIILP | 2006 | \$100,000 | \$65,566 | NA | 10.87 | \$62,731 | \$2,662 | \$38,060 | \$711,806 |
| SHORENSTEIN REALTY INVESTORS IX LP ${ }^{8}$ | 2007 | \$75,000 | \$26,452 | NA | NA | \$26,946 | \$509 | \$48,219 | \$1,125,000 |
| STAG CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |
| STAG INVESTMENTS II LLC | 2005 | \$75,000 | \$57,306 | NA | 27.47 | \$75,066 | \$39,954 | \$0 | \$821,796 |
| STARWOOD CAPITAL GROUP |  |  |  |  |  |  |  |  |  |
| STARWOOD SDL/SOF VII CO INV FD | 2005 | \$55,000 | \$109,686 | NA | 39.43 | \$58,512 | \$24,199 | \$0 | \$964,232 |
| STARWOOD OPPORTUNITY FUND VII | 2005 | \$150,000 | \$161,564 | NA | (4.03) | \$150,000 | \$0 | \$0 | \$1,875,000 |
| TERRA FIRMA CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |
| TERRA FIRMA DEUTSCHE ANNINGTON | 2006 | \$63,695 | \$74,274 | NA | 81.35 | \$41,462 | \$0 | \$27,483 | \$0 |
| TIMBERLAND INVESTMENT RESOURCES LLC |  |  |  |  |  |  |  |  |  |
| NAHELE LLC | 2006 | \$200,000 | \$220,433 | NA | 6.04 | \$190,297 | \$0 | \$10,860 | \$1,773,227 |
| UBS REALTY INVESTORS LLC |  |  |  |  |  |  |  |  |  |
| UBS TRUMBULL PROPERTY INCOME FUND ${ }^{7}$ | 1984 | \$120,995 | \$104,902 | 15.67 | 9.43 | \$120,995 | \$205,590 | \$0 | \$838,836 |
| UBS TRUMBULL PROPERTY FUND' | 1984 | \$215,000 | \$131,771 | 15.90 | 9.24 | \$215,000 | \$293,777 | \$0 | \$1,365,993 |
| VEF ADVISORS |  |  |  |  |  |  |  |  |  |
| VALUE ENHANCEMENT FUND IILLC | 1996 | \$25,000 | \$15,576 | (1.83) | 4.68 | \$26,544 | \$24,311 | \$0 | \$128,564 |
| VALUE ENHANCEMENT FUND IIILLC | 1998 | \$25,000 | \$0 | NA | NA | \$26,116 | \$43,221 | \$0 | \$9 |
| VALUE ENHANCEMENT FUND IV LLC | 1999 | \$100,000 | \$61,060 | 17.96 | 16.11 | \$103,952 | \$34,865 | \$0 | \$374,565 |
| WARBURG PINCUS LLC |  |  |  |  |  |  |  |  |  |
| WARBURG PINCUS REAL ESTATE ILP | 2006 | \$100,000 | \$67,298 | NA | 4.15 | \$67,150 | \$0 | \$33,108 | \$999,578 |
| WESTBROOK PARTNERS LLC |  |  |  |  |  |  |  |  |  |
| WESTBROOK REAL ESTATE FUND ILP | 1995 | \$10,000 | \$205 | (11.99) | (78.22) | \$10,842 | \$23,215 | \$0 | \$0 |
| WESTBROOK REAL ESTATE FUND IILP | 1997 | \$50,000 | \$3,071 | 11.90 | (33.65) | \$53,855 | \$78,218 | \$0 | \$25,741 |
| WESTBROOK REAL ESTATE FUND IIILP | 1998 | \$100,000 | \$4,001 | (14.23) | (44.80) | \$102,363 | \$134,576 | \$3,627 | \$26,228 |
| WESTBROOK REAL ESTATE FUND IV LP | 2000 | \$90,960 | \$8,084 | 82.05 | 8.33 | \$94,488 | \$145,454 | \$1,315 | \$121,807 |

2. Commitment is the maximum amount of capital that a Fund may call.
3. Market value is the current value of a fund. In the years immediately following the vintage year, the base market value will be a fraction of the commitment, in later years the market value may exceed the commitment due to appreciation, but will, over the life of the fund, fall to zero as capital is returned to NCRS
4. Returns are calculated on a time weighted basis, one of two recognized methods of calculating investment returns. Time weighted returns may be difficult to interpret where there have been significant contributions to or distributions from a Fund. During 4. Returns are calculated on a time weighted basis, one of two recognized methods of calculating investment returns. Time weighted returns may be difificult to in
the first three to five years, return data may also be difficult to interpret because most investments are held at cost, and fees have been deducted from the Fund.

Management Fees are based on the commitment Value during the commitment period of the fund, thereafter management fees are typically reduced. For open end funds, management fees are based on the average market value over the previous 12 months.
6. Incentive payments are paid after a fund has achieved a specific threshhold return. Represents the NCRS's pro rata portion of incentive payments from the fund as reported by the fund manager.
7. Open-End Fund
8. Investment commitment made in 2nd half 2007 / 1st half 2008 . Therefore, performance is not available.
9. The Times Square investment was originally made in 1987 with CIGNA, but the Fund was purchased by Prudential in 2004. A large portion of the CIGNA portfolio moved to the PRISA Fund at time of purchase, and the less desirable properties were left in CIGNA Times Square Fund to be liquidated. Therefore, the performance is not available
10. Fees for all open end funds are calculated using market value, not commitment.
11. Fees calculated based on weighted average purchase price, not market value.

The Alternative Investment Portfolio (AIP) consists of actively managed Private Equity and Absolute Return Investments. Private Equity funds invest in interests of private corporations (not listed on the stock exchanges). Absolute Return Funds make investments by entering into commitments through specialized funds, such as hedge funds.

As of June 30, 2008, the Alternative Investment Portfolio ("AIP") posted a market value of $\$ 3.5$ billion, representing $4.8 \%$ of the Trust Fund's assets. For the fiscal year 2008, the AIP returned 7.6\%, net of fees, outperforming its custom benchmark return of $-1.0 \%$. Over longer time periods, the AIP continues to add value to the Trust Fund by outperforming the custom alternatives benchmark on a 1-, $3-5-$, and 10 -year basis.

The AIP has grown in recent years, starting with commitments of less than $\$ 50$ million in 2001 and totaling approximately $\$ 3.5$ billion at the end of the fiscal year.

While Absolute Return Investments are capable of immediate positive returns, it should be noted that Private Equity investments often take a number of years to post higher returns. Investment gains in Private Equity are typically realized in later years as assets of the fund mature and increase in value due to the efforts of the management company. The effect of this timing on fund returns is referred to as the "J-Curve" effect.

The reason for this can be better understood by describing how private equity funds make their investments. Rather than buying stocks or bonds, these funds purchase large stakes in a small number of privately held companies, which allow them to actively engage with company management to increase profitability. After these changes are made, the private equity fund sells its stake in the company for a profit. This process typically takes a number of years. Since the investments are not in publicly traded companies with a stock price to track, it is difficult to determine the increased value of the investment in the interim period while changes are made. But the expenses, such as management fees and writedowns of underperforming assets can be determined more easily. This explains the early negative returns. Over time, it gets easier to determine the increasing value of the company based on its changing financial statements and the
potential sale of assets. Finally, when the private equity fund sells its stake in the company - or the company begins to trade its stock publicly - it is fully possible to determine the investment's new value.

| Manager/Fund Name | Vintagel Inception ${ }^{1}$ |  | $\underset{(\$ 000)}{C^{C o m m i t m e n t}}{ }^{2}$ |  | $\begin{gathered} \text { Market Value } \\ \text { as of } 6 / 30 / 08 \text { ( } \$ 000)^{3} \end{gathered}$ | 3-Year Performance as of $6 / 30 / 08$ | 1-Year Performance as of $6 / 30 / 08{ }^{4}$ | Capital Drawn as of $6 / 30 / 08$ ( $\$ 000$ | $\begin{aligned} & \text { Distributions } \\ & \text { as of } 6 / 30 / 08 \text { ( } \$ 000 \text { ) } \end{aligned}$ | $\begin{gathered} \text { Remaining } \\ \text { Commitment } \\ \text { as of } 6 / 30 / 08(\$ 000) \end{gathered}$ | Management Fees 1 yr ending 6/30/2008 ${ }^{5}$ | Incentives Payments 1 yr ending 6/30/2008 ${ }^{6}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACADEMY FUNDS |  |  |  |  |  |  |  |  |  |  |  |  |
| ACADEMY VENTURE FUND | 1999 | \$ | 5,000 | \$ | 335 | (69.15) | (14.00) | \$5,000 | \$339 | \$0 | \$20,114 | \$0 |
| ACCESS CAPITAL PARTNERS ACCESS CAPITAL IPIID | 2002 | \$ | 29,328 | \$ | 30,876 | 25.36 | 26.08 | \$25.225 | \$12.729 | \$15.135 | \$321,044 | \$0 |
| ANGELO, GORDON \& CO. |  |  |  |  |  |  |  |  |  |  |  |  |
| AG CAPITAL RECOVERY PART V LP | 2005 | \$ | 25,000 | \$ | 22,947 | NA | (1.31) | \$23,375 | \$0 | \$1,625 | \$253,170 | -\$272,482 |
| AG CAPITAL RECOVERY PART VI LP ${ }^{7}$ | 2008 | \$ | 200,000 | \$ | 75,000 | NA | NA | \$75,000 | \$0 | \$125,000 | \$309,066 | \$0 |
| AG GLOBAL STRATEGY PARTNERS ${ }^{\prime}$ | 2008 | \$ | 122,024 | \$ | 51,250 | NA | NA | \$51,250 | \$0 | \$70,774 | \$0 | \$0 |
| AMPERSAND VENTURES AMPERSAND 2006 LP | 2006 | \$ | 30,000 | \$ | 13,649 | NA | (5.57) | \$13,500 | \$0 | \$16,500 | \$599,959 | \$0 |
| ANGELENO GROUP |  |  |  |  |  |  |  |  |  |  |  |  |
| ANGELENO INVESTORS II LP | 2006 | \$ | 30,000 | \$ | 17,392 | NA | 5.71 | \$13,766 | \$1,091 | \$16,234 | \$750,000 | \$0 |
| APOLLO INVESTMENT MANAGEMENT |  |  |  |  |  |  |  |  |  |  |  |  |
| APOLLO INVESTMENT FUND VILP | 2005 | \$ | 150,000 | \$ | 120,978 | NA | 29.67 | \$111,102 | \$2,248 | \$38,898 | \$0 | \$0 |
| $\overline{\text { ARCH VENTURES }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| ARCH FUND VII' | 2007 | \$ | 50,000 | \$ | 2,471 | NA | NA | \$2,700 | \$0 | \$47,300 | \$925,477 | \$0 |
| AURORA FUNDS |  |  |  |  |  |  |  |  |  |  |  |  |
| AURORA VENTURES IV LLC | 2002 | \$ | 15,000 | \$ | 10,361 | (12.43) | (7.67) | \$15,000 | \$65 | \$0 | \$375,000 | \$0 |
| AURORA VENTURES V LLC | 2005 | \$ | 15,000 | \$ | 4,496 | NA | (35.47) | \$6,750 | \$24 | \$8,250 | \$375,730 | \$0 |
| AV MANAGEMENT IV LLC | 2002 | \$ | 5,000 | \$ | 3,488 | (12.07) | (7.61) | \$5,000 | \$0 | \$0 | \$62,498 | \$0 |
| AVISTA CAPITAL PARTNERS AVISTA CAPITAL PARTNERS LP | 2006 | \$ |  | \$ |  |  |  |  |  |  |  |  |
| BURRILL AND COMPANY |  |  |  |  |  |  |  |  | 86,086 |  |  |  |
| BURRILL LIFE SCIENCES CAP FD LP | 2002 | \$ | 41,727 | \$ | 23,895 | (5.62) | (6.04) | \$31,320 | \$2,628 | \$10,407 | \$938,109 | \$0 |
| BURRILL LIFE SCIENCES CAP FD IIILP | 2005 | \$ | 50,000 | S | 9,008 | NA | (11.60) | \$10,848 | \$0 | \$39,152 | \$1,073,223 | \$0 |
| CAROUSEL CAPITAL |  |  |  |  |  |  |  |  |  |  |  |  |
| CAROUSEL CAPITAL PARTNERS III LP | 2006 | \$ | 20,966 | \$ | 10,783 | NA | 34.74 | \$7,200 | \$611 | \$13,766 | \$505,917 | \$0 |
| CASTLE HARLAN INC. |  |  |  |  |  |  |  |  |  |  |  |  |
| CASTLE HARLAN PARTNERS IV | 2002 | \$ | 75,000 | \$ | 38,391 | 35.02 | 63.27 | \$55,924 | \$51,484 | \$19,076 | \$97,830 | \$2,764,668 |
| CASTLE HARLAN PARTNERS $\mathrm{V}^{\prime}$ | 2008 | \$ | 100,000 | \$ | - | NA | NA | \$0 | \$0 | \$100,000 | \$0 | \$0 |
| CATTERTON GROWTH PARTNERS CATTERTON GROWTH PARTNERS ${ }^{\prime}$ | 2008 | \$ | 30,000 | \$ | 5,381 | NA | NA | \$5,385 | \$4 | \$24,614 | \$301,630 | \$0 |
| CHAPTER IV |  |  |  |  |  |  |  |  |  |  |  |  |
| CHAPTER IV INV SPECIAL SITUATIONS FUND | 2006 | \$ | 45,000 | \$ | 31,291 | NA | (17.80) | \$33,118 | \$158 | \$11,882 | \$244,133 | \$0 |
| COLLER CAPITAL |  |  |  |  |  |  |  |  |  |  |  |  |
| COLLER INTL PARTNERS IV LP | 2002 | \$ | 100,000 | \$ | 55,440 | 24.88 | 18.98 | \$81,729 | \$74,862 | \$18,270 | \$851,171 | \$0 |
| CREDIT SUISSE |  |  |  |  |  |  |  |  |  |  |  |  |
| CREDIT SUISSENC INVESTMENT FUND (2006) | 2006 | \$ | 250,000 | \$ | 148,349 | NA | 5.13 | \$146,965 | \$5,288 | \$103,035 | \$1,000,000 | \$0 |
| CREDIT SUISSEINC INVESTMENT FUND (2008)' | 2008 | \$ | 250,000 | \$ | 22,224 | NA | NA | \$22,262 | \$27 | \$227,738 | \$1,941,409 | \$0 |
| CRESTVIEW PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| CRESTVIEW PARTNERS FUND II' | 2008 |  | 100,000 | \$ | - | NA | NA | \$0 | \$0 | \$100,000 | \$0 | \$0 |
| CVC CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| CVC EURO EQUITY PARTNERS IV | 2005 | \$ | 78,540 | \$ | 78,240 | NA | 50.65 | \$71,848 | \$30,987 | \$13,618 | \$503,087 | \$0 |
| DLJ |  |  |  |  |  |  |  |  |  |  |  |  |
| DLJ MERCHANT BANKING II | 1996 | \$ | 7,000 | \$ | 1,601 | (4.30) | (20.07) | \$6,868 | \$9,164 | \$132 | \$14,788 | \$0 |
| SPROUT CAPITAL VI | 1989 | \$ | 6,500 | \$ | 102 | 192.48 | 3.60 | \$6,500 | \$13,921 | \$0 | \$0 | \$0 |
| SPROUT GROWTH II | 1993 | \$ | 3,000 | \$ | 212 | 118.14 | 262.15 | \$3,000 | \$5,650 | \$0 | \$0 | \$25,964 |
| DOGWOOD EQUITY |  |  |  |  |  |  |  |  |  |  |  |  |
| NC ECONOMIC OPPORTUNITIES FUND | 2001 | \$ | 7,500 | \$ | 3,132 | 103.09 | 25.53 | \$4,022 | \$3,806 | \$3,478 | \$74,262 | \$835,087 |
| NCEF LIQUIDATING | 1990 | \$ | 10,010 | \$ | 6,147 | NA | 1.17 | \$10,010 | \$55,737 | \$0 | \$21,250 | \$0 |
| ELEVATION PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| ELEVATION PARTNERS FUND | 2005 | \$ | 100,000 | \$ | 48,278 | (3.88) | 30.78 | \$56,365 | \$18,991 | \$43,635 | \$1,365,834 | \$0 |
| FRANCISCO PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| FRANCISCO PARTNERS II LP | 2006 | \$ | 60,000 | \$ | 37,843 | NA | 21.64 | \$36,150 | \$3,019 | \$23,850 | - $\$ 640,216$ | \$0 |
| GREENHAWK PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| FRANKLIN FAIRVIEW ${ }^{\text {b }}$ | 1997 | \$ | 2,500 | \$ | 913 | 0.51 | (5.35) | \$2,478 | \$189 | \$22 | \$0 | \$0 |
| GSO CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| GSO CAPITAL OPPORTUNITY FUND ${ }^{\prime}$ | 2007 | \$ | 134,650 | \$ | 61,834 | NA | 111655 | \$75,319 | \$21,679 | \$59,331 | \$0 | \$1,314,579 |

THE HALIFAX GROUP

| HALIFAX CAPITAL PARTNERS IILP | 2006 | \$ | 15,000 | \$ | 3,710 | NA | 17.73 | \$4,795 | \$1,604 | \$10,205 | \$214,426 | \$0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HARBOURVEST PARTNERS LLC |  |  |  |  |  |  |  |  |  |  |  |  |
| HARBOURVEST PART III DIRECT LP | 1989 | \$ | 6,500 | \$ | 246 | 20.10 | (15.81) | \$6,500 | \$13,750 | \$0 | \$0 | \$0 |
| HARVEST PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| HARVEST PARTNERS IV LP | 2001 | \$ | 50,000 | \$ | 24,711 | 52.22 | (16.78) | \$45,267 | \$79,303 | \$4,733 | \$0 | \$1,875,211 |
| HARVEST PARTNERS V LP' | 2006 | \$ | 75,000 | \$ | 7,081 | NA | NA | \$7,062 | \$3,950 | \$67,938 | \$339,782 | \$711,914 |
| HATTERAS PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| HATTERAS VENTURE PARTNERS III | 2007 | \$ | 16,354 | \$ | 2,122 | NA | (37.36) | \$2,443 | \$3 | \$13,991 | \$323,680 | \$0 |
| HIGHLAND CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| HIGHLAND CAPITAL PARTNERS VILP | 2001 | \$ | 5,000 | \$ | 3,425 | 28.78 | 24.89 | \$4,888 | \$3,758 | \$112 | \$120,760 | \$60,606 |
| HIGHLAND CAPITAL PARTNERS VIILP | 2006 | \$ | 15,000 | \$ | 5,219 | NA | (4.94) | \$5,513 | \$0 | \$9,487 | \$342,134 | \$0 |
| HIGHLAND CONSUMER FUND I | 2007 | \$ | 25,000 | \$ | 7,163 | NA | (18.14) | \$8,750 | \$0 | \$16,250 | \$606,511 | \$0 |
| HORSELY BRIDGE PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| HORSELY BRIDGE INT'L IV LP | 2007 | \$ | 65,000 | \$ | 13,154 | NA | (13.21) | \$13,817 | \$0 | \$51,183 | \$384,375 | \$0 |
| HORSELY BRIDGE IX LP' | 2008 | \$ | 85,000 | \$ | 1,158 | NA | NA | \$1,360 | \$0 | \$83,640 | \$153,125 | \$0 |
| INTERSOUTH PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| INTERSOUTH PARTNERS III | 1994 | \$ | 1,000 | \$ | 97 | 143.52 | 9.82 | \$1,000 | \$2,112 | \$0 | \$493 | \$0 |
| INTERSOUTH PARTNERS VILP | 2003 | \$ | 7,000 | \$ | 5,254 | 3.45 | 2.89 | \$5,338 | \$282 | \$1,662 | \$110,252 | \$0 |
| KITTY HAWK INC |  |  |  |  |  |  |  |  |  |  |  |  |
| KITTY HAWK CAPITAL FUND III | 1994 | \$ | 1,000 | \$ | 54 | (35.24) | (2.04) | \$1,000 | \$461 | \$0 | \$8,644 | \$0 |
| KRG CAPITAL PARTNERS LLC |  |  |  |  |  |  |  |  |  |  |  |  |
| KRG CAPITAL FUND II | 2001 | \$ | 25,000 | \$ | 5,124 | 73.58 | 7.81 | \$17,894 | \$28,124 | \$7,106 | \$0 | \$0 |
| KRG CAPITAL FUND III LP | 2005 | \$ | 75,000 | \$ | 60,107 | NA | 15.31 | \$52,933 | \$21 | \$22,067 | \$0 | \$0 |
| KRG CAPITAL FUND IV LP' | 2007 | \$ | 150,000 | \$ | 5,383 | NA | NA | \$5,382 | \$0 | \$144,618 | \$2,088,552 | \$0 |
| LEHMAN BROTHERS |  |  |  |  |  |  |  |  |  |  |  |  |
| LEHMAN BROTHERS VENTURE PARTNERS $\mathrm{V}^{\prime}$ | 2007 | \$ | 75,000 | \$ | 10,359 | NA | NA | \$10,386 | \$0 | \$64,614 | \$938,368 | \$0 |
| LEXINGTON PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| LEXINGTON MIDDLE MARKET INV LP | 2005 | \$ | 100,000 | \$ | 56,678 | 25.50 | 15.85 | \$62,542 | \$20,412 | \$37,458 | \$476,250 | \$0 |
| LINDSAY GOLDBERG \& BESSEMER |  |  |  |  |  |  |  |  |  |  |  |  |
| LINDSAY GOLDBERG \& BESSEMER IILP | 2006 | \$ | 100,000 | \$ | 58,993 | NA | 1.05 | \$58,329 | \$439 | \$41,671 | \$991,752 | \$0 |
| LONGREACH CAPITAL PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| LONGREACH CAPITAL PARTILP | 2006 | \$ | 75,000 | \$ | 45,150 | NA | (18.18) | \$55,670 | \$3,460 | \$19,330 | \$1,312,500 | \$0 |
| MATLIN PATTERSON |  |  |  |  |  |  |  |  |  |  |  |  |
| MATLIN PATTERSON GLOBAL OPP III | 2007 | \$ | 100,000 | \$ | 50,169 | NA | 25.98 | \$42,510 | \$0 | \$57,489 | \$1,259,016 | \$0 |
| MARKSTONE CAPITAL |  |  |  |  |  |  |  |  |  |  |  |  |
| MARKSTONE CAPITAL PARTNERS LP | 2005 | \$ | 50,000 | \$ | 32,305 | NA | 41.09 | \$32,017 | \$12,959 | \$17,982 | \$1,000,000 | \$0 |
| NOVAK BIDDLE VENTURE PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| NOVAK BIDDLE VENTURE PART III | 2000 | \$ | 17,000 | \$ | 13,196 | 3.78 | 9.45 | \$16,655 | \$5,264 | \$345 | \$174,182 | \$0 |
| NOVAK BIDDLE VENTURE PART IV | 2004 | \$ | 10,000 |  | 6,686 | (4.75) | (7.58) | \$7,300 | \$0 | \$2,700 | \$250,000 | \$0 |
| NOVAK BIDDLE VENTURE PART V | 2007 | \$ | 10,000 | \$ | 1,700 | NA | (28.39) | \$1,950 | \$0 | \$8,050 | \$250,000 | \$0 |
| PAPPAS CAPITAL ADVISORS LLC |  |  |  |  |  |  |  |  |  |  |  |  |
| AM PAPPAS LIFE SCIENCE VEN II | 2000 | \$ | 5,000 | \$ | 2,226 | 32.85 | (3.81) | \$4,715 | \$2,615 | \$285 | \$106,250 | \$0 |
| AM PAPPAS LIFE SCIENCE VEN III | 2004 | \$ | 20,000 | \$ | 8,387 | (4.61) | (11.90) | \$10,850 | \$1,866 | \$9,150 | \$500,000 | \$0 |
| AM PAPPAS LIFE SCIENCE VEN IV ${ }^{\prime}$ | 2007 | \$ | 30,000 | \$ |  | NA | NA | \$0 | $\$ 0$ | \$30,000 | \$0 | \$0 |
| PARISH CAPITAL ADVISORS LLP |  |  |  |  |  |  |  |  |  |  |  |  |
| PARISH CAPITALILP | 2004 | \$ | 140,275 | \$ | 86,208 | 1.07 | 19.11 | \$85,179 | \$11,208 | \$55,096 | \$1,184,399 | \$0 |
| PARISH CAPITAL EUROPEILP | 2006 | \$ | 201,395 | \$ | 59,928 | NA | 8.74 | \$56,956 | \$368 | \$171,069 | \$1,782,598 | \$0 |
| PARISH CAPITAL IILP | 2006 | \$ | 125,000 | \$ | 55,245 | NA | (3.60) | \$58,754 | \$370 | \$66,246 | \$701,171 | \$0 |
| PCA-SYN INVESTMENTS LLLP | 2006 | \$ | 30,000 | \$ | 11,680 | NA | 8.46 | \$16,769 | \$0 | \$13,231 | \$16,424 | \$0 |
| PERSEUS LLC |  |  |  |  |  |  |  |  |  |  |  |  |
| PERSEUS MARKET OPP FUND LP | 2002 | \$ | 50,000 | \$ | 40,931 | 16.66 | 12.15 | \$44,399 | \$16,287 | \$5,600 | \$185,595 | \$331,113 |
| PERSEUS PARTNERS VIILP | 2006 | \$ | 50,000 | \$ | 10,831 | NA | (3.69) | \$12,374 | \$2,657 | \$37,626 | \$1,108,420 | \$254,005 |
| QUAKER BIOVENTURES |  |  |  |  |  |  |  |  |  |  |  |  |
| QUAKER BIOVENTURES II | 2007 | \$ | 100,000 | \$ | 8,096 | NA | (19.22) | \$9,000 | \$0 | \$91,000 | \$2,277,766 | \$0 |
| QUINTANA ENERGY PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| QUINTANA ENERGY PARTNERS LP | 2006 | \$ | 100,000 | \$ | 55,793 | NA | 0.20 | \$57,134 | \$0 | \$42,866 | \$2,002,755 | \$0 |
| QUINTANA ENERGY PARTNERS LP CO-INV | 2007 | \$ | 75,000 | \$ | 20,700 | NA | (0.07) | \$20,704 | \$0 | \$54,296 | \$0 | \$0 |
| SHERIDAN PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| SHERIDAN PRODUCTIONS PARTNERSI' | 2007 | \$ | 100,000 | \$ | 44,427 | NA | NA | \$38,250 | \$2,000 | \$61,750 | \$1,500,000 | \$0 |
| SYNERGY LIFE SCIENCE PARTNERS |  |  |  |  |  |  |  |  |  |  |  |  |
| SYNERGY LIFE SCIENCE PARTNERS LP | 2006 | \$ | 38,000 | \$ | 11,414 | NA | (2.30) | \$14,099 | \$2,440 | \$23,901 | \$657,676 | \$0 |
| TECHNOLOGY CROSSOVER VENTURES |  |  |  |  |  |  |  |  |  |  |  |  |
| TCV VILP | 2005 | \$ | 30,000 | \$ | 17,384 | NA | 30.02 | \$20,928 | \$6,559 | \$9,072 | \$539,823 | \$0 |



1. The year in which North Carolina Retirement System (NCRS) made its initial commitment to the fund.
2. Commitment is the maximum amount of capital that a fund may call
 to NCRS.
 equity investments may also be difficult to interpret because most investments are held at cost, and the fees have been deducted from the fund.
3. For private equity firms, management fees are based on the commitment value during the commitment period, thereafter management fees are typically reduced.
4. Incentive payments are paid after a fund has achieved a specific threshhold return. Represents the NCRS pro rata portion of incentive payments from the fund as ported by the fund manager.
5. Investment commitment made in secon half of 2007/first half of 2008. Therefore, performance is not available
. Venture fund jointly managed by professionals of Franklin Street Partners and Fairview Capita, LLC. Franklin Street/Fairview Capital, based in the Research Triangle area of North Carolina, was formed in November of 1996 when the principals of Franklin Stree Partners, a Chapel Hill financial services firm, and Fairview Capital, L.L.C., a Raleigh private investment company, combined to pursue private investment opportunities.

## ABSOLUTE RETURN PORTFOLIO AS OF 6/30/2008

| Manager/Fund Name | Vintage/ Inception ${ }^{1}$ | Commitment ${ }^{2}$ <br> (\$000) |  | $\begin{gathered} \text { Market Value } \\ \text { as of } 6 / 30 / 08(\$ 000)^{3} \end{gathered}$ |  | 3-Year Performance as of $6 / 30 / 08$ | 1-Year Performance as of $6 / 30 / 08{ }^{4}$ | Management Fees 1 yr ending $6 / 30 / 08^{5}(\$ 000)$ | Incentives Payments 1 yr ending $6 / 30 / 2008{ }^{6}(\$ 000)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BROYHILL ASSET MANAGEMENT |  |  |  |  |  |  |  |  |  |
| BROYHILL FUND | 2002 | \$ | 10,000 |  | 12,676 | 5.50 | 3.48 | \$101 | \$0 |
| DKR CAPITAL INC. |  |  |  |  |  |  |  |  |  |
| AIG dKr relative value fund | 2002 | \$ | 35,000 |  | 49,784 | 8.42 | 2.83 | \$0 | \$0 |
| FRANKLIN STREET PARTNERS |  |  |  |  |  |  |  |  |  |
| FRANKLIN STREET PARTNERS | 2002 | \$ | 335,000 |  | 464,963 | 7.66 | 2.25 | \$3,451 | \$338 |
| QUELLOS GROUP, LCC |  |  |  |  |  |  |  |  |  |
| CARS | 2002 | \$ | 335,000 |  | 424,097 | 5.92 | (4.65) | \$2,185 | \$0 |
| TACONIC INVESTMENT PARTNERS |  |  |  |  |  |  |  |  |  |
| TACONIC CAPITAL PARTNERS II ${ }^{7}$ | 2002 | \$ | 16,250 |  | - | N/A | N/A | \$1 | \$0 |
| TACONIC OPPORTUNITY FUND ${ }^{7}$ | 2004 | \$ | 7,000 |  | 257 | N/A | N/A | \$2 | \$4 |

1. Represents the inception date of the investment by the North Carolina Retirement System (NCRS)
2. Commitment is the total amount of capital NCRS funded.
3. Market value is the current value of a fund.
4. Returns are calculated on a time weighted basis
5. For absolute return strategies, management fees are based on the average market value for the assets over the previous 12 months.
6. Incentive payments are paid after a fund has achieved a specific threshhold return. Represents the NCRS pro rata portion of incentive payments from the fund as reported by the fund manager
7. Fund is being liquidated, therefore performance is not available

[^0]:    *All returns are time-weighted returns based on data from the custodian as book of record.

[^1]:    *Terminated in 2007
    *Terminated in 2008

