## Comprehensive Annual <br> Financial Report

 Year Ended December 31, 2004

Prepared by the DPSRS Staff
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Robert J. Scott Executive Director

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## Introductory



Comprehensive Annual Financial Report

# Certificate of Achievement for Excellence in Financial Reporting 

## Denver Public Schools Retirement System, Colorado

For its Comprehensive Annual<br>Financial Report for the Fiscal Year Ended<br>December 31, 2003

A Certificate of Achievement for Excellence in Financial Reporting is presented by the Government Finance Officers Association of the United States and Canada to government units and public employee retirement systems whose comprehensive annual financial reports (CAFRs) achieve the highest standards in government accounting and financial reporting.


President


Executive Director

## To the Members

of the Board of Trustees and the Board of Education:

Iam pleased to present the Comprehensive Annual Financial Report (CAFR) of the Denver Public Schools Retirement System (System or DPSRS) for the year ended December 31, 2004.

The System is the successor of the Denver Public School Employees' Pension and Benefit Association, which was created by the Board of Education of School District No. 1 in the City and County of Denver, Colorado, on December 1, 1945, pursuant to state statute, that permitted first class school districts to establish an employees' retirement fund. Effective January 1, 2000, the state statute was rewritten, and the Association was renamed the Denver Public Schools Retirement System. The Retirement Board was replaced by an 11-member Board of Trustees having all fiduciary responsibilities for management of the System. The Board of Education retains responsibilities for funding and plan design.

School District No. 1 (DPS or School District), the System, and Charter Schools within the School District comprise the District.

The 2004 CAFR is presented in five major sections:

- The Introductory Section contains the Letter of Transmittal, Message from the Chairperson, listing of the Board of Trustee members, an administrative organization chart, and a listing of major consultants.
- The Financial Section presents the opinion of the System's independent auditors, KPMG LLP, Management's Discussion and Analysis of financial activities, the financial statements, and the supporting schedules for the System, including a listing of the investment professionals providing services to the System.
- The Investment Section includes information pertaining to the System's investment policies, objectives, and performance and detailed investment listings.
- The Actuarial Section contains the certification of the System's independent consulting actuary, Gabriel, Roeder, Smith \& Company, and a review of the actuarial assumptions, valuation methods, funding progress and other statistics used in the actuarial valuation. Also included is a summary of the Denver Public Schools Retirement System Retirement and Benefit Plan (Plan) provisions. The Plan is the detailed statement of rights that one has as a member of the System and the statement of the procedures of operation and organization of the System.
- The Statistical Section contains tables and charts of additional data and interest pertaining to the System.


## Letter of Transmittal ...continued

## Benefit Plan Changes and Other Initiatives

The following changes were made to the Plan effective in 2004 by the Board of Education at the recommendation of the Board of Trustees:

- As of January 1, 2004, each active DPSRS member was credited with the greater of active or accredited service and that service is called "Earned Service." Earned Service is used to determine eligibility for a retirement benefit and to determine the amount of the retirement benefit.
- A DPSRS-covered employer may re-employ a retired member of the DPSRS, but only after a break in service of at least 30 days from the date of retirement. This amendment is intended to meet the Internal Revenue Service bona fide termination requirements.
- The purchase of service provisions of the Plan were amended to prohibit an active member from purchasing service that already has been purchased for credit in another retirement system.
- The calculation to determine credit for casual service was changed from one based on hours of employment to a calculation based on the compensation of the member. One month of service is credited for each month the individual's earnings equal or exceed 80 times the hourly federal minimum wage in effect at the time of service.
- Effective January 1, 2004, the cost required to purchase noncovered service credit increased from $25 \%$ of highest average salary (HAS) to $34 \%$ of HAS for each year of service purchased.
- Effective January 1,2004 , language was added to bring the Plan into compliance with the Internal Revenue Code and Limitation of Benefits requirements.
- Effective December 31, 2004, the Option A benefit was enhanced by adding a death benefit that provides the payment to the designated beneficiary(ies) of the remaining amount of an annuitant's accumulated contribution balance at the time of death.
- Effective December 31, 2004, two new joint and survivor annuity options, continued at $100 \%$ (P3) and 50\% (P2) respectively, were added that provide a "pop-up" feature in the event the joint survivor pre-deceases or divorces from the annuitant. The P2 or P3 benefit amount generally will pop up to the Option A benefit amount in such event.
- Effective December 31, 2004, the reference to the use of female mortality tables in establishing the option factors for the joint and survivor annuity options was removed from the Plan.

The following changes have been made to the Plan in 2005 that affect benefit and actuarial calculations going forward:

- The employer contribution requirements were amended to allow for a phase in of the employer contribution rate to achieve the full annual required contribution rate by July $1,2008$.
- The actuarial reduction percentage for an Optional Early Retirement for members hired or rehired on or after July 1 , 2005, or persons who become Affiliate members on or after July 1,2005 , will be $6 \%$ for each year the member is short of the full age or service eligibility requirements.
- For members who are hired or rehired on or after July 1, 2005, or persons who become Affiliate members on or after July 1, 2005, the Annual Retirement Allowance Adjustment (ARAA) was changed from the current $3.25 \%$ per year compounded to the lesser of $3 \%$ per year compounded or the increase in the national consumer price index for urban wage earners and clerical workers for the preceding year, compounded. The effective date for the ARAA will be March 1 of each year following the year of retirement.
- For members who are hired or rehired on or after July 1, 2005, or persons who become Affiliate members on or after July 1, 2005 , the calculation of the first ARAA, effective in the year immediately following the year of retirement, will be calculated in a pro-rated manner based on the number of months retired.
- The interest assumption rate was changed to $81 / 2 \%$, and the wage inflation rate was changed to $41 / 2 \%$.
Much of the effort of the Board of Trustees and staff at DPSRS in 2004 was directed toward consummation of the merger of DPSRS into Colorado PERA authorized by legislation passed in 2003. That legislation contained a provision that DPS, DPSRS, or Colorado PERA could terminate the merger on or before July 1,2004 , without cause. Colorado PERA exercised its right under that provision and terminated the merger on June 29, 2004. New enabling legislation providing for merger on January 1, 2007, was introduced in the 2005 legislative session.


## Letter of Transmittal ...continued

## Financial Information

The financial statements and reporting are the responsibility of the System's management. The financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America, and the System's auditor has so stated in its opinion. This CAFR was prepared to conform with the requirements of Governmental Accounting Standards Board (GASB) Statement No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans and GASB Statement No. 34, Basic Financial Statementsand Management's Discussion and Analysis-for State and Local Governments.

In the opinion of the System's management, the financial information presented is accurate in all material respects, and presents fairly, the financial status at December 31, 2004. The management of the System is responsible for maintaining an internal control structure to provide reasonable assurance of asset accountability and the authorized and proper recording of transactions.

Adoption of GASB No. 34 has no monetary impact on the financial statements of DPSRS but does require additional disclosure.
Additional financial information can be found in Management's Discussion and Analysis, which is included as required supplementary information and precedes the financial statements in the Financial Section of this report.

## Mission Statement

The System exists in partnership with the District and its employees to provide career employees and their families with a primary source of lifetime income relative to service at retirement, disability or death, in a prudent, responsible and cost-effective manner.

## Letter of Transmittal ...continued

## Funding

There are several ways to appraise the funding condition of the System and progress toward the objective of preserving financial solvency. The employment of a qualified, independent actuary is essential to perform an actuarial review and valuation and to provide technical advice and assistance.

The System's actuary performs an annual actuarial review. In addition, the Plan requires an investigation of mortality and service experience at least once during each five-year period. In recent years, the experience analysis has been performed every three years. The most recent experience investigation was completed for the period January 1, 2001, through December 31, 2003.

An adequate funding level provides assurance and security for payment of future benefits. One measure of funding status is the Solvency Test shown on page 55 . This test compares actuarial valuation assets to actuarial accrued liabilities categorized by active member contributions, liabilities for future benefits for present retirees and beneficiaries, and liabilities for service already performed by active members.

Another measure of funding progress is shown in the funding progress schedule on page 28. This historical schedule indicates the actuarial value of assets as a percentage of actuarial accrued liabilities. The current actuarial funded ratio of the System is $88.2 \%$. This is consistent with $90.6 \%$ in the previous year due to investment returns in the current year. The System remains in a funded position sufficient to pay promised future benefits.

## Investments and Economic Overview

Investment policies and objectives for the System have been designed to enable the investment program of the retirement system to facilitate the longterm accomplishment of the System's mission. The program emphasizes longterm total returns and performance, recognizing the impact of inflation on benefit levels. Risk exposure is controlled by broad diversification related to asset mix and careful selection and evaluation of specialized investment managers.

The U.S. economy and financial markets performed well in 2004. The U.S. equity markets, as measured by the Russell 3000 Index, showed a total return of $11.9 \%$ for 2004. The S\&P 500 Index showed a total return of $10.9 \%$. Bonds, as measured by the Lehman Brothers Aggregate Index, showed a modest 2004 return of $4.3 \%$.

The System's diversified portfolio produced a total return of $12.7 \%$ for 2004, performing in the upper third of the DPSRS consultant's universe. Detailed investment performance results, policies, and strategies are presented by the Chief Investment Officer in the Investment Management section of this report.

## Awards

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the System for its CAFR for the fiscal year ended December 31, 2003. This was the twelfth consecutive year that the System has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a public employee retirement system must publish an easily readable and efficiently organized CAFR. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

## Letter of Transmittal ...continued

A Certificate of Achievement is valid for a period of one year only. We believe that our current CAFR continues to meet the Certificate of Achievement Program's requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate.

## Acknowledgements

The compilation of this report reflects the combined efforts of the staff of the Retirement Administration Office, the Accounting Office and the Office of Fund Investments. It is intended to provide comprehensive and reliable information as a basis for making management decisions, determining compliance with legal provisions and determining responsible stewardship for the assets contributed by the System's members and the District.

I would like to express my appreciation to the Board of Education, Board of Trustees, staff, consultants and all others who work to assure the successful administration, operation and financial soundness of the retirement plan. If you have questions about this report or need additional information, contact the DPSRS Retirement Office.


Robert J. Scott Executive Director


Andrew Raicevich
Chairperson
Retirees
2004-2008


Kay Speer
Vice-Chairperson
Pupil Contact
2003-2007


Ann Vogel
Secretary
Support Services
2001-2005


Darrell Allen
Recognized Expert Appointed


Andrew Raicevich, II Administrators/Pro-Tech 2004-2006


Kathryn Doctor
Pupil Contact 2001-2005


Velma Rose
Board of Education
Appointed


Donald Giseburt
Retirees
2003-2007


Gregg Torres
Support Services
2002-2006


Chrisanne LaHue
Pupil Contact 2001-2005


Lester Woodward
Board of Education
Appointed


## Board of Trustees 2005

Pictured left to right: Ann Vogel (Secretary), Velma Rose, Andrew Raicevich (Chairperson), Donald Giseburt, Robert Scott (Executive Director), Darrell Allen, Andrew Raicevich, II, Gregg Torres, Kathryn Doctor, Chrisanne LaHue, and Les Woodward. Not pictured: Kay Speer (Vice Chairperson)

## 1/1/2005 Board of Education

Lester Woodward Lucia Guzman Michelle Moss Kevin Patterson
Elaine Gantz Berman

Bruce Hoyt Theresa Pena

Superintendent Jerry Wartgow

In keeping with past practices and generally accepted reporting standards, as Chairperson of the Board of Trustees for the Denver Public Schools Retirement System, I am pleased to present the Comprehensive Annual Financial Report for our 59th year of operation, the year ended December 31, 2004. The report provides the reader with an in-depth review of the financial, actuarial and investment status of the System.

The actuarial report for 2004 indicates that the plan continues to be financially sound as a result of strong investment results during the year. A gradual increase in employer contributions is being made which will help further the financial soundness of the plan.

Much of the activity of the Board of Trustees and staff at DPSRS during 2004 again involved administrative and benefit changes needed for the proposed merger with the Public Employees' Retirement Association of Colorado (Colorado PERA). New enabling legislation has been presented to the legislature this year at the request of the DPS Board of Education. The Board of Trustees of DPSRS continues working to ensure that the merger only will take place if it is in the best interest of all active and retired members of DPSRS and to ensure that member interests are safeguarded properly. The target date for the merger is January 1, 2007.

The Board of Trustees of DPSRS is fortunate to have retained the services of Robert J. Scott as Executive Director as we continue to work toward merger with Colorado PERA. His sixteen years as Colorado PERA's Executive Director and seven years as Auditor for the State of Colorado provide us with excellent leadership and knowledge as we continue merger discussions with Colorado PERA.

In addition, the DPSRS staff has remained stable and continues to provide members the outstanding service we are accustomed to receiving. For the twelfth time in the past twelve years, the DPSRS has been awarded a Certificate of Achievement for Excellence in Financial Reporting for its Comprehensive Annual Financial Report for the Year Ended December 31, 2003. This certificate is presented by the Government Finance Officers Association of the United States and Canada to government units and public employee retirement systems whose comprehensive annual financial reports achieve the highest standards in government accounting and financial reporting. This certificate is well deserved by the DPSRS staff.

In November 2004, a Board of Trustees election was held to fill the expired term of Lita Weinstein. The Administrative Supervisory/ProTech employees elected Andrew Raicevich, II, to represent them for a two-year term. Mr. Raicevich, a nineteen-year employee of the Denver Public Schools, returns to the Board of Trustees having previously represented Support Service employees.

Andrew Raicevich was unopposed in his candidacy for his position on the Board and will continue to serve as a retiree representative for a four-year term.

The Board of Trustees also reelected Ann Vogel as Secretary, Kay Speer as Vice-Chairperson and Andrew Raicevich as Chairperson to serve as the Executive Committee of the Board of Trustees for 2005.

I hope you find the Annual Report informative and of value. The DPSRS Board of Trustees looks forward to our 60th year of service to retirees and employees of the Denver Public Schools.

Coned C Friunth
Andrew A. Raicevich
Board of Trustees Chairperson

## 2005 Board of Trustees Committee Assignments

## Executive Committee

Andrew Raicevich
Kay Speer
Ann Vogel
Disability Appeal Committee
Chrisanne LaHue, Chairperson
Kathryn Doctor
Gregg Torres
Ann Vogel

## Audit Committee

Les Woodward, Chairperson
Chrisanne LaHue
Andrew Raicevich
Andrew Raicevich, II
Velma Rose

## Ad-Hoc Election Committee

Gregg Torres, Chairperson
Andrew Raicevich, II
Kay Speer
Ann Vogel
Les Woodward

## Investment Committee

Velma Rose, Chairperson
Darrell Allen
Kathryn Doctor
Donald Giseburt
Gregg Torres

## 2004 Primary Consultants

## Actuarial Services

Gabriel, Roeder, Smith \& Company
One Towne Square
Suite 800
Southfield, MI 48076
Computer Services
Alfred Munksgard \& Associates
3617 Thousand Oaks Boulevard
Suite 120
Thousand Oaks, CA 91320
Hewlett Packard
PO Box 101149
Atlanta, GA 30392-1149

Independent Auditors
KPMG LLP
707 Seventeenth Street
Suite 2700
Denver, CO 80202

## Investment Services

Hewitt Investment Group
100 Half Day Road
Lincolnshire, IL 60069

## Master Custodian

The Northern Trust Company
50 South LaSalle Street
Chicago, IL 60675

## Legal Services

Cockrell, Quinn \& Creighton
1700 Broadway \#1516
Denver, CO 80290-1501
Otten, Johnson, Robinson, Neff \& Ragonetti, PC
1600 Colorado National Bank Building
950 17th Street
Denver, CO 80202



Comprehensive Annual Financial Report

## Independent Auditors' Report

KPMG LLP
Suite 2700
707 Seventeenth Street
Denver, CO 80202

## Independent Auditors' Report


#### Abstract

The Board of Education of School District No. 1 in the City and County of Denver and State of Colorado and the Board of Trustees of the Denver Public Schools Retirement System:


We have audited the accompanying statements of fiduciary net assets of the Denver Public Schools Retirement System (System) as of December 31, 2004 and 2003, and the related statements of changes in fiduciary net assets for the years then ended. These financial statements are the responsibility of the System's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the System'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 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 fiduciary net assets of the System as of December 31, 2004 and 2003, and the changes in fiduciary net assets for the years then ended in conformity with accounting principles generally accepted in the United States of America.

The Management's Discussion and Analysis and required supplementary information included in the schedules of funding progress and employer contributions, and notes thereto, are not a required part of the basic financial statements, but are supplementary information required by accounting principles generally accepted in the United States of America. We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the required supplementary information. However, we did not audit the information and express no opinion on it.

Our audits were made for the purpose of forming and opinion on the basic financial statements taken as a whole. The supplementary information included in the additional supporting schedules is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information 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.
KPMG LLP

Denver, Colorado
March 25, 2005

December 31, 2004 and 2003

Management is pleased to present this discussion and analysis of the financial activities of the System as of and for the years ended December 31, 2004 and 2003.

The System administers the retirement plan for eligible, covered employees and retirees of the District. All assets of the plan are invested in a single trust fund. The sole purpose of the fund is to pay for benefit promises made to retired and active members of the System.

## Overview of the Financial Statements

The Management's Discussion and Analysis is intended to serve as an introduction to the financial statements. The financial section consists of the basic financial
statements and other supplementary information and schedules.

Two financial statements are presented for the System. The Statements of Fiduciary Net Assets present the net assets held in trust for pension benefits at a given point in time. The Statements of Changes in Fiduciary Net Assets indicate the additions and deductions to the plan assets during the specified periods.

The Notes to the Financial Statements provide essential information for understanding the data provided in the financial statements by providing information about the description of the plan, significant accounting policies, investment assets and liabilities, contributions, and benefit enhancements.

The Required Supplementary Information includes two schedules and related notes. The Schedule of Funding Progress provides historical trend information about the actuarially determined funded status of the plan. The Schedule of Employer Contributions provides historical trend information about the annual required contributions (ARC) of the District and the contributions made by the District in relation to the ARC.

Additional Supporting Schedules include the Schedules of Administrative Expenses, the Schedule of Investment Expenses, and the Schedule of Payments to Consultants. These schedules provide additional analysis of the information provided in the financial statements.

## Condensed Financial Information

Fiduciary Net Assets at December 31:


## Management's Discussion and Analysis ...continued

## Changes in Fiduciary Net Assets

|  |  | 2004 |  | 2003 |  | 2002 | $\begin{gathered} 2004 \\ \text { \% Change } \end{gathered}$ | $\begin{gathered} 2003 \\ \text { \% Change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Additions (reductions) |  |  |  |  |  |  |  |  |
| Employer contributions | \$ | 21,142,815 | \$ | 13,023,157 | \$ | 9,473,361 | 62.4 \% | 37.5 \% |
| Member contributions |  | 25,992,388 |  | 32,665,945 |  | 28,275,170 | (20.4)\% | 15.5 \% |
| Net investment income (loss) |  | 278,447,116 |  | 449,742,992 |  | $(166,488,447)$ | (38.1)\% | 370.1 \% |
| Total additions (reductions) |  | 325,582,319 |  | 495,432,094 |  | $(128,739,916)$ | (34.3)\% | 484.8 \% |
| Deductions |  |  |  |  |  |  |  |  |
| Benefit payments |  | $(163,473,489)$ |  | $(152,838,651)$ |  | $(143,604,377)$ | 7.0 \% | 6.4 \% |
| Refunds |  | $(6,154,132)$ |  | $(4,893,891)$ |  | $(3,346,228)$ | 25.8 \% | 46.3 \% |
| Administrative expenses |  | (3,568,221) |  | $(3,233,847)$ |  | $(2,301,329)$ | 10.3 \% | 40.5 \% |
| Total deductions |  | $(173,195,842)$ |  | $(160,966,389)$ |  | $(149,251,934)$ | 7.6 \% | 7.9 \% |
| Changes in net assets | \$ | 152,386,477 |  | $334,465,705$ |  | (277,991,850) | (54.4)\% | 220.3 \% |

## Financial Highlights and Analyses

The funding objective of DPSRS is to meet long-term benefit obligations. To meet this objective, it is necessary that adequate funding be provided from employer contributions at recommended levels, expressed as a percentage of active member payroll, and investment income at or above assumed rates of return.

Net assets represent the amount available to pay promised benefits. At December 31, 2004, the net assets of the plan increased $6.3 \%$ to $\$ 2,555,931,368$ from $\$ 2,403,544,891$ at December 31, 2003. The 2004 increase was less than the $16.2 \%$ increase in 2003 primarily due to lower market gains in 2004 compared with 2003. A comparison of annual composite investment returns is shown below.

| Composite |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Returns | 1 year | 3 year | 5 year | 10 year |
| 2004 | $12.7 \%$ | $9.6 \%$ | $6.3 \%$ | $11.5 \%$ |
| 2003 | $23.1 \%$ | $5.4 \%$ | $7.5 \%$ | $10.2 \%$ |
| 2002 | $(5.2) \%$ | $(0.8) \%$ | $5.8 \%$ | $9.2 \%$ |

The Board of Trustees has responsibility for the investment of plan assets. Plan assets are invested according to the Statement of Investment Objectives and Policies (SIOP) approved by the Board of Trustees. The SIOP sets forth the strategic asset allocation target guidelines. Each strategic asset class has an optimal target with high and low ranges. In measuring the progress in reaching the targets, net cash and debt in managed accounts are included. Investments in all asset classes are within acceptable ranges for 2004 and 2003.

|  | $\mathbf{2 0 0 4}$ <br> Actual | 2003 <br> Actual | $\mathbf{2 0 0 2}$ <br> Actual | Target |
| :--- | ---: | ---: | ---: | ---: |
| Asset class | $38 \%$ | $36 \%$ | $27 \%$ | $32 \%$ |
| Domestic stocks | $20 \%$ | $18 \%$ | $14 \%$ | $17 \%$ |
| International stocks | $29 \%$ | $32 \%$ | $42 \%$ | $36 \%$ |
| Fixed income | $9 \%$ | $9 \%$ | $11 \%$ | $10 \%$ |
| Equity real estate | $3 \%$ | $4 \%$ | $4 \%$ | $5 \%$ |
| Alternative assets <br> Cashand <br> short-term investments | $1 \%$ | $1 \%$ | $2 \%$ | $0 \%$ |

The progress in accumulating sufficient assets to meet the long-term benefit obligations is measured in terms of the funded status or the funded ratio of the plan. The funded ratio is the actuarial value of assets expressed as a percentage of the actuarial accrued liability. The funding policy is the method to provide benefits specified by the Plan through the amounts and timing of contributions from the employers and the members. The excess of the actuarial accrued liability over the actuarial value of assets is the unfunded actuarial accrued liability or UAAL. The actuarial value of assets differs from the year-end fair value of plan net assets by smoothing the effects of market fluctuations. In the calculation of the actuarial value of assets, $20 \%$ of the excess of the fair value of plan assets over the expected actuarial value of assets is included in the actuarial value of assets. The smoothing method lessens the need to adjust the contribution rates based on the volatility in market conditions. During extended periods of market declines the plan net assets usually will be less than the actuarial value of assets. The effect of the market declines for the years 2000 through 2002 are reflected in the difference between the actuarial value of assets and the plan net assets. Plan net assets increased $\$ 152.4$ million. In comparison, the actuarial value of assets increased $\$ 79.8$ million.

## Management's Discussion and Analysis ...continued

|  | 2004 | 2003 | 2002 |
| :--- | :---: | :---: | :---: |
| Funded ratio | $88.2 \%$ | $90.6 \%$ | $90.9 \%$ |
| (\$Thousands) | 2004 | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 2}$ |
| Actuarial |  |  |  |
| accrued liability | $\$ 2,960,990$ | $\$ 2,793,788$ | $\$ 2,712,293$ |
| Actuarial asset value | $2,61,524$ | $2,531,746$ | $2,465,049$ |
| UAAL | 349,466 | 262,042 | 247,244 |
| Plan net assets | $2,555,931$ | $2,403,545$ | $2,069,079$ |

The actuarial accrued liability increased $\$ 167.2$ million or $6 \%$ from 2003 to $\$ 2.96$ billion primarily due to changes in economic assumptions and under funding of employer contributions. The assumed investment rate of return was changed to $8.50 \%$ from $8.75 \%$. The employer funding policy rate for employer contributions has lagged behind the actuarially recommended contribution rate for the past three years. Unless the funding policy provides for funding at the recommended levels, it is likely the funded status of the plan will continue to decline in future years. Effective July 1, 2005, the employer contribution rate will increase from $8.12 \%$ to $9.48 \%$ of covered payroll as part of a funding policy change to adopt the recommended employer contribution rate over a 4-year period. In addition, several benefit changes were adopted effective in 2005 to reduce future benefit obligations for new members. The employer contribution rate, as of July 1 for each year, is shown below.

| Beginning July 1, | 2004 | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 2}$ |
| :--- | ---: | :--- | :--- |
| Recommended | $12.64 \%$ | $8.83 \%$ | $8.51 \%$ |
| Actual | $8.12 \%$ | $4.98 \%$ | $2.90 \%$ |

A required disclosure in the financial statements is a schedule of employer contributions. The purpose of this schedule is to provide information about the annual required contributions or ARC compared to the employer contributions or funding policy. The ARC is the amount required to cover the normal pension cost and includes a provision for amortizing the UAAL. The UAAL is amortized over a 30 -year period. Changes in the employer contribution rate are effective July 1 each year; therefore, the ARC and employer funding policy rates are expressed as blended rates or the average of the employer contribution rates for the year.

| Blended rates | 2004 | 2003 | 2002 |
| :---: | :---: | :---: | :---: |
| ARC | 10.74\% | 8.67\% | 5.71\% |
| Funding policy | 6.55\% | 3.94\% | 2.90\% |

Employer contributions increased $62.4 \%$ from 2003 primarily due to the increase in the employer contribution rate from $4.98 \%$ to $8.12 \%$, effective July 1,2004 . The increase in the employer contribution rate to $8.12 \%$ is significantly less than the recommended rate of $12.64 \%$. Employer contributions in 2004 were approximately $61 \%$ of the ARC compared with 45\% in 2003.

|  | 2004 | 2003 | 2002 |
| :---: | :---: | :---: | :---: |
| Employer <br> contributions | $\$ 21,142,815$ | $\$ 13,023,157$ | $\$ 9,473,361$ |

Member contributions consist of normal $8 \%$ contributions, payments to qualify prior District service, and purchase of non-covered employment. Total contributions from members decreased 20.4\% from 2003. Normal contributions and contributions for prior service decreased $2.9 \%$ primarily due to a $2.0 \%$ decrease in the number of contributing members from 2003. The number of contributing members has declined $6.9 \%$ since 2002 following an increase of $7.1 \%$ from 2000 through 2002. Purchase of non-covered employment decreased $91.7 \%$ primarily due to an increase in the purchase cost from $25 \%$ to $34 \%$ of highest average salary, effective January $1,2004$.

|  | 2004 | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 2}$ |
| :---: | :---: | :---: | :---: |
| Contributing <br> members | 7,192 | 7,339 | 7,722 |


| Member <br> contributions | 2004 | 2003 | 2002 |
| :--- | ---: | ---: | ---: |
| Normal | $\$ 24,921,523$ | $\$ 25,590,277$ | $\$ 24,889,799$ |
| Prior service <br> Non-covered <br> employment | 533,800 | 611,793 | 957,401 |

Benefit payments increased $7.0 \%$ in 2004 compared to $6.4 \%$ in 2003. The increase is a result of a $3.0 \%$ increase in the number of benefit recipients compared to a $1.6 \%$ increase in 2003, the annual benefit increase of $3.25 \%$, and a significant change in the mortality tables used in the calculation of benefits effective December 31, 2004. The effect of the change in the mortality tables was a reduction in the amount of the annual benefit for certain retirement options and resulted in an increase in retirements.

|  | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 2}$ |
| :--- | ---: | ---: | ---: |
| Benefit recipients | 5,869 | 5,699 | 5,610 |

Administrative expenses increased $10.3 \%$ in 2004 compared to an increase of $40.5 \%$ in 2003. At. $14 \%$ of net assets, the administrative costs of the System remained comparable to $.13 \%$ of net assets in 2003. The increases in 2004 and 2003 primarily are due to the proposed merger of the System into the Public Employees' Retirement Association of Colorado (Colorado PERA), effective January 1, 2005. The proposed merger was terminated in 2004.

Subsequent to December 31, 2004, legislation was introduced in the Colorado Legislature to authorize a merger of the two retirement systems effective January 1,2007 . Should the proposed merger occur, administrative expenses will increase significantly in 2005 and 2006.

## Basic Financial Statements

## Statements of Fiduciary Net Assets

As of December 31, 2004 and 2003

## Assets

| Cash and short-term investments | \$ 107,612,418 | \$ 116,276,464 |
| :---: | :---: | :---: |
| Receivables |  |  |
| Accrued interest and dividends | 5,737,258 | 5,700,485 |
| Contributions | 1,256,403 | 1,251,788 |
| Investment settlements | 103,247 | 803,458 |
| Other | 3,763,900 | 3,779,852 |
| Total receivables | 10,860,808 | 11,535,583 |
| Investments, at fair value |  |  |
| Domestic stocks | 950,333,340 | 859,416,125 |
| International stocks | 496,898,036 | 427,988,923 |
| Alternative assets | 89,997,203 | 92,607,906 |
| Corporate securities | 286,261,759 | 284,045,093 |
| Government securities | 238,330,612 | 245,873,170 |
| Mortgage investments | 201,930,350 | 248,591,834 |
| Equity real estate | 261,194,626 | 252,425,749 |
| Securities lending collateral | 298,017,707 | 184,990,477 |
| Total investments | 2,822,963,633 | 2,595,939,277 |
| Prepaid expenses | 674,110 | 490,479 |
| Capital assets, at cost, net of accumulated |  |  |
| depreciation of \$814,508 (\$887,111 in 2003) | 109,988 | 155,807 |
| Total assets | 2,942,220,957 | 2,724,397,610 |

## Liabilities

| Accounts payable and accrued expenses | $8,780,410$ | $7,654,054$ |
| :--- | ---: | ---: |
| Mortgages payable | $32,718,773$ | $32,718,773$ |
| Investment settlements | $46,772,699$ | $95,489,415$ |
| Securities lending obligations | $298,017,707$ | $184,990,477$ |
| Total liabilities |  | $386,289,589$ |

Net assets held in trust for pension benefits
(A schedule of funding progress for the plan is presented on page 28.) \$ 2,555,931,368 \$ 2,403,544,891

See accompanying notes to financial statements.

## Basic Financial Statements ...continued

## Statements of Changes in Fiduciary Net Assets

For the Years Ended December 31, 2004 and 2003

|  |  | 2004 |  | 2003 |
| :---: | :---: | :---: | :---: | :---: |
| Additions |  |  |  |  |
| Contributions |  |  |  |  |
| Employer | \$ | 21,142,815 |  | 13,023,157 |
| Member |  | 25,992,388 |  | 32,665,945 |
| Total contributions |  | 47,135,203 |  | 45,689,102 |
| Investment income |  |  |  |  |
| Interest |  | 40,771,786 |  | 44,790,706 |
| Net appreciation in fair value of investments |  | 218,322,287 |  | 394,615,067 |
| Dividends |  | 19,038,822 |  | 14,859,373 |
| Equity real estate |  | 14,522,947 |  | 17,861,790 |
| Alternative assets |  | $(6,319,407)$ |  | $(15,438,566)$ |
| Securities lending |  | 3,363,983 |  | 2,056,777 |
| Other |  | 363,427 |  | 359,847 |
| Total investment income |  | 290,063,845 |  | 459,104,994 |
| Investment expense |  | $(8,766,108)$ |  | $(7,728,136)$ |
| Securities lending expense |  | $(2,850,621)$ |  | $(1,633,866)$ |
| Net investment income |  | 278,447,116 |  | 449,142,992 |
| Total additions |  | 325,582,319 |  | 495,432,094 |
| Deductions |  |  |  |  |
| Benefits paid to regular retirees |  | $(156,551,097)$ |  | $(146,197,007)$ |
| Benefits paid to disability retirees |  | $(5,582,568)$ |  | $(5,302,929)$ |
| Benefits paid to survivors |  | $(1,339,824)$ |  | $(1,338,715)$ |
| Refunds of contributions |  | $(6,154,132)$ |  | $(4,893,891)$ |
| Administrative expenses |  | $(3,568,221)$ |  | $(3,233,847)$ |
| Total deductions |  | $(173,195,842)$ |  | $(160,966,389)$ |
| Net increase in net assets |  | 152,386,477 |  | 334,465,705 |
| Net assets held in trust for pension benefits |  |  |  |  |
| Beginning of year |  | 2,403,544,891 |  | 2,069,079,186 |
| End of year | \$ | 2,555,931,368 | \$ | 2,403,544,891 |

See accompanying notes to financial statements.

Notes to Financial Statements
December 31, 2004 and 2003

At December 31, 2004 and 2003, the System's membership consisted of the following:

## (1) Description of the Plan

The Board of Education of School District No. 1 in the City and County of Denver and State of Colorado established the System on December 1, 1945, which is a cost-sharing, multipleemployer defined benefit pension plan under Colorado law. The Board of Education adopted the Retirement and Benefit Plan, as amended, to provide defined retirement, death and disability benefits to participating members. Participation in the retirement plan is mandatory for all full-time employees of the School District hired after December 1, 1945, and of the System, and of Charter Schools within the School District, established under the Colorado Charter Schools Act of 1993.

The Board of Trustees (Board) is an 11member body with the exclusive authority to invest and manage the assets of the System, pay benefits, and otherwise administer the System. The Board is composed of 6 elected active and 2 elected retired members of the System, 2 members appointed by the Board of Education of the School District, and 1 member, appointed by the other Board members, with expertise in pension administration or in investment matters.
$\left\{\begin{array}{lcc} & 2004 & 2003 \\ \hline \begin{array}{l}\text { Retirees and beneficiaries } \\ \text { currently receiving benefits }\end{array} & 5,869 & 5,699 \\ \text { Terminated members entitled to } & & \\ \text { benefits but not yet receiving them } & 276 & 219 \\ \text { Current employees } & 4,362 & 4,407 \\ \text { Vested } & 2,861 & 2,932 \\ \text { Nonvested } & 13,368 & 13,257 \\ \text { Total membership } & & \end{array}\right.$

The Plan provides an Annual Retirement Allowance Adjustment (ARAA) increase in retired members' benefits. The annual percentage increase for each member is $3.25 \%$ of the member's retirement allowance.

If a member resigns prior to retirement, the member is entitled to a refund of accumulated member contributions, which includes interest. Member accounts are credited with interest on the last day of each month based upon the member's balance as of the beginning of that month. The following is a table of the interest rates applied to member accounts:

| December 31, | Rate |
| :--- | ---: |
| 1986 and prior years | $3 \%$ |
| 1987 through 1990 | $9 \%$ |
| 1991 through present | $5 \%$ |

Terminating members, electing to leave their accumulated contributions in the System, are eligible for deferred retirement provided they have a minimum of 5 years of service.

Employees who have attained either age 55 with a minimum of 25 years of civilian service in a tax-supported institution, of which 15 years must have been service qualified with the District, or age 65 with at least 5 years of earned service, or age 50 with at least 30 years of earned service, are entitled to regular retirement benefits. Employees who meet the above criteria at retirement are entitled to regular retirement benefits, payable monthly for life, in an amount equal to $2.50 \%$ of their monthly highest average salary (HAS) for each year of earned service to the date of retirement. The monthly HAS is defined as the average of the highest 36 months of compensation earned by the employee throughout employment with the District or career average salary, whichever is greater.

Beyond each full year of service, any full month(s) of service are credited proportionally. Optional early retirement with a reduction of benefits may be elected by a member at an age younger than 55 with 25 years of District service or at age 55 or beyond with 15 years of District service. The benefit reduces by 4\% for each year of age or service the member lacks in fulfilling the minimum requirements for a regular retirement.

The Plan also provides for a disability retirement. Members with 5 or more years of earned service, who become permanently incapacitated from performing their duties, are eligible for disability retirement. The amount of the disability benefit is calculated in the same manner as for a regular retirement under the provisions of a single life annuity. Members with at least 25 years

## Notes to Financial Statements...continued

of earned and outside service at the date of retirement can elect at age 55 (age 50 with 30 years of earned service) to recalculate their benefits as a regular retirement. Otherwise, recalculation of a disability retirement occurs at age 65. Beginning with 1999 and under prescribed circumstances, disability retirees with fewer than 25 years of service can apply to qualify full years after retirement to be used when their disability benefits are recalculated to regular retirement benefits. The maximum number of earned and additional qualified years cannot exceed 25 at the date of recalculation, unless the total number of years of earned service at the effective date of disability retirement exceeds 25 , in which case such number of years is used to compute the recalculated benefit.

Liquidation of the System can be initiated by either the Board of Education or by vote of the members. In the event of liquidation, the assets would be distributed as specified in the Plan.

## Reporting Entity

The Board is responsible for the general operations and fiscal matters of the System. These responsibilities include the ability to designate management, select the System's independent actuary and auditor, and determine investment policies.

The System is a body corporate and an instrumentality of the School District; it is not an agency of the School District. In addition, the System is not subject to administrative direction by the School District, and the assets of the System are not available to the School District. Accordingly, the financial statements of the System are not included in the financial statements of the School District or any other organization.

## Pension Plan Disclosure for System Employees

The employees of the System are members of the plan and earn and accrue benefits as would any other member as described above. The System's employer contributions were $\$ 93,773$ and $\$ 51,832$ for the years ending December 31, 2004 and 2003, respectively. In addition, the System contributed \$158,557 and $\$ 134,404$, for the same periods, for the cost of the pension certificates of participation issued by the District on July 17, 1997.

## (2) Significant Accounting Policies

## Basis of Accounting and Presentation

The financial statements of the System are prepared using the economic resources measurement focus and the accrual basis of accounting. Investment income is recorded when it is earned. Expenses are recorded when liabilities are incurred. Member and employer contributions are recorded in the period in which the contributions are due. Benefit and refund payments are recorded in the period in which the liabilities are due and payable.

The financial statements are presented in accordance with GASB Statement Nos. 25, 28, 34, and 37, and generally accepted accounting principles that apply to governmental accounting for fiduciary funds.

In March 2003, GASB issued Statement No. 40, Deposit and Investment Risk Disclosures. Statement No. 40 is an amendment to GASB Statement No. 3 and is effective for periods beginning after June 15, 2004. The System has chosen not to early adopt this Statement.

## Investments

System investments are presented at fair value or estimated fair value. Securities traded on a national or international exchange are valued at the last reported sales price. Securities traded over-thecounter are valued at the last bid price. The values of corporate and government securities are based on comparable securities with similar yield and risk factors. The System's equity in real estate investments are stated at estimated fair value at the date of the financial statements. Generally, this value is determined periodically (usually annually) by the advisor or independent appraisers or more frequently if management of the applicable funds has determined that there has been a significant change in the economic circumstances related to the investment. The fair values of mortgage investments are based upon current interest rates and prepayment assumptions. The value of alternative assets generally remains at cost until a significant event results in an increase or decrease in fair value.

For the purpose of determining realized gains and losses, the costs of corporate stocks are calculated on the average cost basis. The costs of all other investments are determined based on specific identification.

## Notes to Financial Statements...continued

## Derivative Financial Instruments

The System invests in derivative financial instruments as authorized in the SIOP of the System. As of December 31, 2004 and 2003, the System had derivative financial instruments with off-balance sheet risk including options, futures, interest rate swaps, and credit default swaps. The System invests in derivative financial instruments principally for yield curve and interest rate risk management.

Option contracts convey rights between contracting parties to buy or sell the underlying securities. The owner of a call option has the right to purchase the security, and the owner of a put option has the right to sell the security. The System buys and sells option contracts actively traded on major exchanges. As of December 31, the fair value of the option contracts
was $\$(38,347)$ in 2004 and $\$(187,895)$ in 2003.

Futures contracts represent commitments to purchase or sell securities

## at a future

date and at a specified price. Futures are exchange traded, and the exchange assumes the risk of nonperformance by a counterparty.

Interest rate swaps represent contractual agreements between counterparties to exchange interest rate cash flows for a specified period and based upon notional amounts. One of the counterparties is obligated to make a net cash settlement at the maturity of the contract. The System is exposed to credit risk in the event of nonperformance of the counterparty to the contract. As of December 31, the fair value of these contracts was $\$ 135,777$ in 2004 and $\$(86,554)$ in 2003.

As of December 31, 2004 and 2003, the System had investments in the following derivative financial instruments. The contract or notional amounts do not represent the exposure to market loss.
government securities or irrevocable letters of credit, for the loaned securities equal to $102 \%$ and $105 \%$ of the market value, plus accrued income, of domestic and global securities, respectively. Collateral is marked to market daily with additional collateral required when the value of the collateral falls below the minimum requirements. The System retains all beneficial rights to the loaned securities except for the ability to vote proxies.

NTC invests cash collateral in a short-term investment pool or in separate term loans with maturities equal to the terms of the security loans. These loans can be terminated on demand by either lender or borrower. Noncash collateral cannot be pledged or sold unless the borrower defaults on the loan agreement. A portion of the earnings on the invested collateral is rebated to the borrower in accordance with the agreement between NTC and the borrower.

## Securities Lending Collateral and Obligations

The System participates in a securities lending program in accordance with the provisions of a contract between the System (lender) and its custodial agent, The Northern Trust Company (NTC). NTC, acting as the lending agent, loans equity, fixed income, and short-term securities to independent brokers and dealers (borrower). The borrower exchanges collateral, in the form of cash,

| Description | 2004 |  | 2003 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Contracts | Contract or Notional Value | Contracts | Contract or Notional Value |
| Long fixed income futures | 426 | \$ 239,001,563 | 97 | \$ 9,981,422 |
| Short fixed income futures | 225 | $(25,200,563)$ | 68 | $(7,590,500)$ |
| Interest rate swaps | 6 | - | 10 | - |
| Credit default swaps | 18 | - | 16 | - |
| Swaption put | 1 | $(2,500,000)$ | 1 | $(4,200,000)$ |
| Short put options | 49 | $(5,489,913)$ | 1,254 | $(17,934,125)$ |
| Short call options | 155 | $(17,344,084)$ | 192 | $(21,371,903)$ |
| Long put options | 30 | 3,356,109 | - | - |
| Long call options | 28 | 28,000,000 | 1,100 | 1,100,000 |

## Notes to Financial Statements...continued

There were no significant violations of legal or contractual provisions, no borrower or lending agent default losses known to the securities lending agent and no dividend or coupon payments owing on the loaned securities as of December 31, 2004 and 2003.

NTC provides loss indemnification to the extent NTC performs appropriate borrower and collateral investment credit analyses, by demanding adequate types and levels of collateral and complying with applicable Department of Labor and Federal Financial Institutions Examination Council regulations concerning securities lending. The System had no credit risk exposure at December 31, 2004 and 2003, because the amount the System owed the borrowers exceeded the amount the borrowers owed the System.

As of December 31, 2004, the fair value of loaned securities was $\$ 291,635,411$ ( $\$ 179,890,378$ in 2003). The fair value of the associated collateral was $\$ 298,017,707$ ( $\$ 184,990,477$ in 2003). Security lending income, net of borrower rebates and lending fees, was $\$ 513,362$ for the year ended December 31, 2004 (\$422,911 in 2003).

## Federal Income Tax Status

The System is qualified under Internal Revenue Code (IRC) Section 401(a). The System is a governmental plan as described in IRC Section 414(d). It therefore, is exempt from federal income taxation under IRC Section 501(c)(25)(C)(ii).

## Capital Assets

Capital assets are recorded at cost, less accumulated depreciation. Costs of major additions and improvements are capitalized. Expenses for maintenance and repairs are charged as deductions as incurred. Depreciation is calculated using the straight-line method based on estimated useful lives of four and five years.

## Compensated Absences of System Staff

The policy for compensated absences was changed in 2003. Sick and personal leave and vacation allowances were combined into paid leave. Accumulated paid leave is payable upon termination or retirement and based upon the rate of pay at termination or retirement. At December 31, 2004, the liability for accumulated paid leave was \$556,179 (\$421,740 in 2003).

## Risk Management

The System is exposed to various risks related to theft, damage, and destruction of assets, errors and omissions, injuries to employees and court challenges to fiduciary decisions. To insure against such risks of losses, the System carries policies of fiduciary liability insurance, general liability insurance, property insurance, and a crime/fidelity bond. Employees of the System receive health, life, and dental insurance coverage under the policies of the School District. There have been no insurance claims against the System for the past three years.

## Use of Estimates

Preparation of the financial statements, in conformity with accounting principles generally accepted in the United States of America, requires that management make certain estimates and assumptions. These estimates and assumptions affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ significantly from these estimates.

## (3) Investments

## Investment Authority

The System is authorized to invest in a broad array of investments as described in the SIOP, dated December 6, 2004. These include, but are not limited to the following:

- Equity securities, both domestic and international, of publicly traded companies and related derivative securities
- Fixed income securities and related derivative securities
- Equity and debt investments in income-producing real estate
- Alternative assets including private (not publicly traded) equity or debt investments
- Short-term investment funds with the custodian bank


## Concentrations of Credit Risk

The System's overall investment policy emphasizes total return, which includes current income and capital growth.

Mortgage investments represent investments in real estate loans collateralized by the related properties, mortgage participation certificates, mortgage participation funds, and commercial mortgage-backed securities.

## Notes to Financial Statements...continued

Investments in corporate stocks and bonds are diversified by: (1) geographic area primarily within the United States for bonds and worldwide for corporate stocks, (2) industry group and (3) sensitivity to general economic cycles. Generally, these investments represent non-collateralized ownership in, or lending to, publicly held corporations traded on domestic and international markets.
U.S. government securities are composed of securities with varying maturities and interest rates and are backed by the full faith and credit of the U.S. government. The above limitations and the System's diversification over several asset classes are intended to reduce the overall investment risk exposure.

## Cash and Short-Term Investments

The carrying amount of the System's cash deposits at December 31, 2004, was $\$ 209,094$, and the bank balance was $\$ 699,751$ ( $\$ 862,317$ and $\$ 1,516,110$ in 2003, respectively). Of the bank balances at December 31, 2004, and 2003, \$100,000 is covered by federal depository insurance and $\$ 599,751$ ( $\$ 1,416,110$ in 2003) is covered by the provisions of the Colorado Public Deposit Protection Act and is collateralized in single institution pools with securities held by the pledging institution's trust department or agent, but not in the System's name. The following table summarizes the fair value of cash and short-term investments held by the System as of December 31.

|  | 2004 |  | 2003 |  |
| :---: | :---: | :---: | :---: | :---: |
| General operating bank accounts | \$ | 209,094 | \$ | 862,317 |
| Short-term government securities (registered securities, held by the System's agent in the System's name) |  | 37,223,033 |  | 19,339,257 |
| Variable money market accounts with custodial bank (fully collateralized by the underlying securities, held by the System's agent in the System's name) |  | 70,180,291 |  | 96,074,890 |
| Total cash and short-term investments | \$ | 107,612,418 | \$ | 116,276,464 |

## Investment Categorization

The following table presents the System's investments at December 31, 2004 and 2003, categorized to give an indication of the level of risk assumed by the System.
The categories are:

1. Insured or registered investments or securities held by the System or its agent in the System's name.
2. Uninsured or unregistered investments, with securities held by the counterparty's trust department or agent in the System's name.
3. Uninsured and unregistered investments, with securities held by the counterparty in the System's name or held by the counterparty's trust department or agent but not in the System's name.
Investments not evidenced by securities are not categorized.

|  | 2004 |  | 2003 |
| :---: | :---: | :---: | :---: |
| Investments - category 1 |  |  |  |
| Corporate securities | \$ 286,261,759 | \$ | 284,045,093 |
| Government securities | 238,330,612 |  | 245,873,170 |
| Domestic stocks | 609,571,208 |  | 524,137,119 |
| International stocks | 90,569 |  | 118,664,554 |
| Total category 1 investments | 1,134,254,148 |  | 1,172,719,936 |
| Investments not subject to credit risk classification |  |  |  |
| Mortgage investments | 201,930,350 |  | 248,591,834 |
| International stock funds | 496,807,467 |  | 309,324,369 |
| Equity real estate | 261,194,626 |  | 252,425,749 |
| Domestic stock funds | 340,762,132 |  | 335,279,006 |
| Alternative asset funds | 89,997,203 |  | 92,607,906 |
| Securities lending collateral | 298,017,707 |  | 184,990,477 |
| Total investments not categorized | 1,688,709,485 |  | 1,423,219,341 |
| Total investments | \$ 2,822,963,633 | \$ | 2,595,939,271 |

General operating bank accounts are maintained at Wells Fargo Bank, Denver, Colorado. Variable money market funds and short-term fixed rate securities are invested with The Northern Trust Company, Chicago, Illinois.

## Notes to Financial Statements...continued

## (4) Contributions

Employer contributions are based on the funding policy required by Plan provisions. The employer contribution rate is fixed at $2.90 \%$ of covered salary for the period from July 1,2000 , through June 30, 2010. Should unfunded actuarial accrued liabilities accumulate during this period, the employer contribution rate each year will increase by the amount required to amortize the UAAL over 30 years. The actuary of the System issues an annual report as of January 1 of each year. The School District adopts changes in the employer contribution rates for its fiscal year beginning 18 months after the date of the annual actuarial valuation report.

Members are required to contribute $8 \%$ of gross covered salary to the System. These contributions are recorded in separate member accounts. Member contributions are tax-deferred for federal and state income tax purposes.

In accordance with funding policy, the District made contributions to the System totaling $\$ 21,142,815$ at $6.55 \%$ of current covered payroll $\$ 13,023,157$ at $3.94 \%$ in 2003). The ARC was $8.83 \%$ for the period January 1, 2004 through June 30, 2004 (8.51\% for 2003), and $12.64 \%$ for the period July 1, 2004 through December 31, 2004 ( $8.83 \%$ for 2003). Member contributions totaled $\$ 25,992,388$ and $\$ 32,665,945$ for 2004 and 2003, respectively.

## (5) Future Benefit Enhancements

Created in 1991, the Reserve for Future Benefit Enhancements (FBE) serves as an account within the System Retirement Trust Fund (SRTF) designated to provide for the payment of future improvements in Plan benefits. This account is funded annually in accordance with prescribed guidelines set forth in the Plan. The balance in the FBE is a component of net assets held in trust for pension benefits but is excluded from the computation of the actuarial accrued liability of the System. The balance in the FBE at December 31, 2004 and 2003, was $\$ 0$.

## (6) Mortgages Payable

The System obtained mortgage loans on four commercial office buildings owned by the System. Each mortgage loan is non-recourse and is secured by the respective real property. The mortgages only require interest payments with balloon payments due at maturity. The following table summarizes the mortgage note balances as of December 31 .

| Property | Rate | Maturity | Principal Balance |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 2004 |  | 2003 |
| Denver, CO | LIBOR + 1.80\% | April 30, 2008 | \$ 5,250,000 | \$ | 5,250,000 |
| New York, NY | LIBOR + 1.75\% | May 23, 2005 | 9,500,000 |  | 9,500,000 |
| Stamford, CT | LIBOR + 1.40\% | April 1, 2005 | 11,918,773 |  | 11,918,773 |
| Malvern, PA | 6.66\% | May 15, 2006 | 6,050,000 |  | 6,050,000 |
|  |  |  | \$ 32,718,773 |  | 32,718,773 |
| Maturities on mortgages payable as of December 31, 2004, are as follows: |  |  |  |  |  |
|  |  | December 31: | Principal |  | Interest |
|  |  | 2005 | \$ 21,418,773 | \$ | 872,970 |
|  |  | 2006 | 6,050,000 |  | 359,900 |
|  |  | 2007 | - |  | 207,900 |
|  |  | 2008 | 5,250,000 |  | 69,300 |
|  |  | 2009 | - |  | - |
|  |  |  | \$ 32,718,773 | \$ | 1,510,070 |

## (7) Proposed Merger Into Colorado PERA

In 2003, Senate Bill 03-250 was passed and signed into law. Senate Bill 03-250 authorized the School District, the System, and Colorado PERA to enter into an agreement to merge the System into Colorado PERA. The legislation provided authority to the parties involved to terminate the merger agreement, without cause, on or before July 1, 2004. On June 29, 2004, the Colorado PERA Board of Trustees unanimously voted to terminate the merger agreement in the best interests of the Colorado PERA membership.

At the request of the School District, on February 1, 2005, Senate Bill 05-171 was introduced in the Colorado State Senate to authorize the merger of the System into Colorado PERA on January 1, 2007. Under Senate Bill 05-171, the School District, the System, and Colorado PERA would be authorized to enter into a merger agreement. If an agreement is not executed by October 1,2005 , any of the parties involved may terminate the merger by providing written notice to the other parties by 0 ctober 15, 2005. After October 1, 2005, and before October 1, 2006, the merger can be terminated only for specific reasons as set forth in the legislation.

Under the terms of the merger, the School District may be required to provide funding to Colorado PERA. Unless the School District and Colorado PERA mutually agree upon another funding source, the School District must complete and receive sufficient proceeds from the issuance of pension certificates of participation by December 13, 2006, or Colorado PERA can terminate the merger agreement on or before December $15,2006$.

## Notes to Financial Statements...continued

## (8) Defined Contribution Plan

The Board approved the establishment of a discretionary defined contribution plan (DC Plan) for employees of the System in 2003. The DC Plan is maintained in compliance with the requirements of IRC Section 401(a). Contributions to the DC Plan are at the sole discretion of the System. The System contributes amounts equal to the amounts payable under the Staff Retention Pay Plans. For the year ended December 31, 2004, the System contributed \$592,860 (\$280,576 in 2003) on behalf of eligible employees covered under the DC Plan.

## (9) Staff Retention Pay Plans

On June 2, 2003, the Board approved a Staff Retention Pay Plan, effective July 1, 2003, for employees of the System. The Board determined a need to encourage staff members to remain with the System as a result of the merger legislation passed into law in 2003, as described in note 7 . The retention payments were made to permanent full-time employees on two dates provided the employees remain employed by the System on the specified payment dates. On June 30, 2004, the System made contributions into the DC Plan for eligible employees equal to $25 \%$ of their 2003 annual base salaries. On December 25, 2004, the System made contributions into the DC Plan for eligible
employees equal to $50 \%$ of their 2004 annual base salaries.

In anticipation of a future merger of the System into Colorado PERA, the Board approved a Staff Retention/Succession Plan for 2005 on January 10, 2005. Eligible employees will receive cash payments equal to $21.5 \%$ of their 2004 base salaries, payable in quarterly installments, provided the eligible employees remain employed by the System throughout each quarter. In addition, eligible employees will have $25 \%$ of their 2004 base salaries contributed into the System's DC Plan on December 29, 2005, provided the eligible employees remain employed by the System for the entire period from January 1 , 2005 through December 29, 2005.

Required Supplementary Information
Schedule of Funding Progress (Unaudited)
Dollars are expressed in thousands.

| Actuarial <br> Valuation Date January 1 , | Actuarial <br> Value of Assets | Actuarial <br> Accrued Liability | Unfunded Actuarial Accrued Liability | Funded Ratio (1)/(2) | Annual <br> Covered <br> Payroll | Unfunded Actuarial Accrued Liability As a \% of Covered Payroll (3)/(5) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) | (2) | (3) | (4) | (5) | (6) |
| 2000 | \$2,044,332 | \$1,983,400 | \$ (60,932) | 103\% | \$264,079 | (23)\% |
| 2001 | 2,308,030 | 2,371,925 | 63,895 | 97 | 292,404 | 22 |
| 2002 | 2,462,548 | 2,550,556 | 88,008 | 97 | 307,834 | 29 |
| 2003 | 2,465,049 | 2,712,293 | 247,244 | 91 | 331,607 | 75 |
| 2004 | 2,531,746 | 2,793,788 | 262,042 | 91 | 318,122 | 82 |
| 2005 | 2,611,524 | 2,960,990 | 349,466 | 88 | 315,157 | 111 |

## Schedule of Employer Contributions (Unaudited)

| Year Ended <br> December 31, | Annual Required <br> Contribution | Percentage of ARC <br> Contributed | Annual Required <br> Contribution Percentage |
| :--- | :---: | :---: | :---: |
| 1999 | $\$ 7,140,565$ | $100.00 \%$ | $2.79 \%$ |
| 2000 | $8,007,508$ | 100.00 | 2.90 |
| 2001 | $8,735,015$ | 100.00 | 2.90 |
| 2002 | $18,949,591$ | 49.99 | 5.71 |
| 2003 | $28,709,754$ | 45.36 | 8.67 |
| 2004 | $34,637,301$ | 61.04 | 10.74 |

Unaudited-see accompanying notes to required supplementary information.
Unaudited-see accompanying independent auditors' report.

# Notes to Required Supplementary Information (Unaudited) 

December 31, 2004

## (1) Actuarial Assumptions and Methods

The required supplementary schedules provide information to help users assess the ability of the System to accumulate sufficient assets to pay benefits when due. The information includes funding status, funding progress and contribution rates and requirements. The Schedule of Funding Progress reports the unfunded actuarial accrued liability of the System and its significance relative to the capacity to pay for the liability. The Schedule of Employer Contributions provides information about the required contributions and the extent to which the employer makes those contributions.

The following schedule provides information regarding significant actuarial assumptions and methods as of the latest actuarial valuation date.

| Valuation date | January 1, 2005 |
| :---: | :---: |
| Actuarial cost method | Entry age |
| Amortization method | .Level percentage of increasing payroll |
| Amortization approach. | .Open |
| Remaining amortization period | . 30 years at each valuation date |
| Asset valuation method | . $20 \%$ smoothed excess market over expected actuarial value |
| Actuarial assumptions: |  |
| Investment rate of return | .8.50\% |
| Including inflation at . | .4.50\% |
| Projected salary increases | .Varies based upon service and age from 4.5\% to 9.5\% |
| Including inflation at | 4.50\% |
| Cost-of-living adjustments | .3.25\% compounded |

## (2) Significant Factors Affecting

 Trends in Actuarial Information
## 2004 Changes in Plan Provisions

- Effective July 1,2005 , the provisions governing the employer contribution requirements are amended to allow for a phase in of the employer contribution rate to achieve the full annual required contribution rate by July 1,2008 .
- The Option A benefit is enhanced by adding a death benefit that provides the payment to the designated beneficiary(ies) of the remaining amount of an annuitant's account balance at the time of death, effective December 31, 2004.
- Effective December 31, 2004, joint and survivor annuity "pop-up" options P3 and P2 are added. In the event the joint survivor annuitant predeceases or divorces from the annuitant, the benefit amount generally will pop up to the Option A amount.
- The reference to the use of female mortality tables in establishing the option factors for the joint and survivor annuity options is deleted from the Plan, effective December 31, 2004.
- Effective January 1,2005 , the economic assumptions for investment return and wage inflation were changed to $8.50 \%$ and $4.50 \%$ from $8.75 \%$ and $4.00 \%$, respectively.
- The actuarial reduction on optional early retirements is increased to $6 \%$ from $4 \%$ for members hired or rehired or persons who become affiliate members on or after July $1,2005$.
- For members hired or rehired or persons who become affiliate members on or after July 1,2005 , the ARAA will be changed from $3.25 \%$ compounded to the lesser of $3.00 \%$ or the increase in the Consumer Price Index for urban wage earners and clerical workers for the preceding year compounded.
- For members hired or rehired or persons who become affiliate members on or after July 1,2005 , the calculation of the first ARAA, effective in the year immediately following the year of retirement, will be calculated in a pro-rated manner based on the number of months retired.


## Notes to Required Supplementary Information ...continued

## 2003 Changes in Plan Provisions

- As of January 1,2004 , earned service is used both to determine the eligibility for retirement and the amount of the retirement benefit. Prior to this change, active service was used to determine retirement eligibility, and accredited service was used to determine the retirement benefit.
- Effective January 1,2004 , the calculation to determine credit for casual service changed from one based on hours of employment to a calculation based on the compensation of the member. One month of service credit is credited for each month the member's earnings equal or exceed 80 times the hourly federal minimum wage in effect at the time of service.
- Effective January 1,2004 , the cost to purchase non-covered employment increased from $25 \%$ to $34 \%$ of HAS at the time of the purchase.


## 2002 Changes in Plan Provisions

- Effective July 1,2002 , any changes in the employer contribution rate become effective on July 1 of the year that is 18 months after the end of the calendar year on which the actuarial valuation is based.


## 2001 Changes in Plan Provisions

- For retirements on or after January 1,2001 , the Unit Benefit Percentage Factor increased from $2.25 \%$ to $2.50 \%$ of highest average salary for all years of accredited service.
- Members age 50 with 30 years of active service are eligible for regular retirement beginning with retirements on or after January 1, 2001.
- The actuarial reduction on optional early retirements was reduced to $4 \%$ from $5 \%$ for retirements on or after January $1,2001$.
- Effective January 1, 2001, the annual basic benefit was increased by a one-time adjustment. The adjustment is equal to $\$ 25$ for each full year of accredited service at retirement.
- Additional options are available to members who elect deferred retirement and become eligible for benefit payments on or after January 1, 2001. A member can elect either to receive a refund of $200 \%$ of accumulated contributions, a money purchase retirement benefit based on $200 \%$ of accumulated contributions and the minimum employer-provided benefit, or the existing defined benefit provided in the Plan.
- Beginning January 1,2001 , the ARAA is compounded at $3.25 \%$.
- Beginning January 1,2001 , beneficiaries of members who die while eligible for regular retirements can select either a refund of the members' contributions, applicable retirement benefits under Options B (installment refund annuity) or C (joint survivorship annuity), or applicable survivor benefits.


## 2000 Changes in Plan Provisions

- Beginning January 1,2000 , beneficiaries of members who die while eligible for optional early retirements can select either a refund of the members' contributions, applicable retirement benefits under Options B or C, or applicable survivor benefits.
- Effective with retirements on or after January 1,2000 , any individual can be named as a co-annuitant under either Options C or E (half joint survivorship annuity).


## 1999 Changes in Plan Provisions

- Beginning with 1999 and years thereafter, members retired on disability with less than 25 years of service can apply to qualify full years after the year of their retirement to be used in the recalculation of their disability retirement benefits at normal retirement age. The total accredited years cannot exceed 25 at the time of recalculation.


## Additional Supporting Schedules

## Schedules of Administrative Expenses

For the Years Ended December 31, 2004 and 2003

|  |  | 2004 |
| :--- | ---: | ---: |
| Personnel services |  | 2003 |
| Salaries | $\$ 1,634,825$ | $1,732,861$ |
| Employee benefits | 992,753 | 591,856 |
| Total personnel services | $2,627,578$ | $2,324,717$ |
| Professional services |  |  |
| Lesal fees | 56,712 | 49,461 |
| Actuarial fees | 153,400 | 59,600 |
| Audit fees | 35,000 | 32,000 |
| Consultants and outside services | 117,334 | 162,725 |
| Maintenance agreements | 74,615 | 72,710 |
| Total professional services | 437,061 | 376,496 |
| Miscellaneous expenses |  |  |
| Insurance | 104,186 | 89,280 |
| Subscriptions and research materials | 6,358 | 7,144 |
| Investment services | 39,000 | 31,982 |
| Computer system software | 2,612 | 5,096 |
| Computer supplies | 13,418 | 18,125 |
| Registrations, conferences, and memberships | 19,883 | 24,415 |
| Planning and meeting | 3,592 | 5,319 |
| Travel | 29,466 | 43,266 |
| Office rent | 82,205 | 88,655 |
| Office supplies | 15,545 | 9,862 |
| Postage and printing | 85,568 | 91,370 |
| Equipment repair | 1,185 | 599 |
| Depreciation | 86,186 | 90,706 |
| Other | 14,378 | 26,815 |
| Total miscellaneous expenses | 503,582 | 532,634 |
| Total administrative expenses | $\$ 3,568,221$ | $\$ 3,233,847$ |

See accompanying independent auditors' report.

## Additional Supporting Schedules...continued

## Schedule of Investment Expenses

For the Year Ended December 31, 2004

|  | Share |  | Fees |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Transactions | Commissions | Manager | Custodian |  | Total |
| Internal fixed |  | \$ | \$ | \$ 167,311 | \$ | 167,311 |
| Seneca Capital Management |  | - | 432,015 | - |  | 432,015 |
| Vanderbilt Capital Advisors |  | - | 258,718 | - |  | 258,718 |
| Western Asset Management |  | - | 456,570 | - |  | 456,570 |
| Arnhold and S. Bleichroeder | 13,610,167 | 610,560 | 648,186 | - |  | 648,186 |
| The Boston Company | 22,056,923 | 932,799 | 1,032,437 | - |  | 1,032,437 |
| LSV Asset Management | 1,227,865 | 26,674 | 419,879 | - |  | 419,879 |
| TCW Asset Management | 1,464,725 | 64,502 | 624,764 | - |  | 624,764 |
| Constitution Research and Management | 4,952,925 | 171,330 | 457,527 | - |  | 457,527 |
| Cordillera Asset Management | 6,835,317 | 298,956 | 224,513 | - |  | 224,513 |
| $\Pi$ International Advisors, Inc. | 57,443,098 | 679,245 | 548,172 | - |  | 548,172 |
| Axiom International | - - | - | 599,031 | - |  | 599,031 |
| Morgan Stanley | - | - | 1,753,862 | - |  | 1,753,862 |
| Northern Trust Global | - | - | 141,850 | - |  | 141,850 |
| J.P. Morgan Investment | - | - | 654,715 | - |  | 654,715 |
| Loan servicing | - | - | 315,102 | - |  | 315,102 |
| Commission recapture | - | $(354,007)$ |  | - |  |  |
| Bank fees | - | - | 17,158 | - |  | 17,158 |
| Other investment expense | - | - | 14,298 | - |  | 14,298 |
|  | 107,591,020 | \$ 2,430,059 | \$ 8,598,797 | \$ 167,311 | \$ | 8,766,108 |

## Schedule of Payments to Consultants

For the Year Ended December 31, 2004

| Firm | Fees | Nature of Service |
| :--- | ---: | :--- |
| Gabriel, Roeder, Smith \& Company | $\$ 153,400$ | Actuarial and investment |
| KPMG LLP | 60,245 | Audit and benefits |
| Hewitt Associates | 65,572 | Investment |
| Wilshire Associates | 39,000 | Investment |
| RiskCap | 3,494 | Insurance |
| University Physicians | 7,411 | Disability benefits |
| Munksgard \& Associates | 19,426 | Information systems |
| Cockrell, Quinn \& Creighton | 51,692 | Legal |
| Otten, Johnson, Robinson, |  |  |
| Neff \& Ragonetti PC | 5,020 | Legal |
|  | $\$ 405,260$ |  |

See accompanying independent auditors' report.

## Economic Overview

The U.S. economy continued to expand in 2004, with the gross domestic product growing at $4.4 \%$. The economy was affected by multiple factors throughout the year. The quick run-up in energy prices was a key concern. In addition to Americans feeling the pinch at the pump, higher crude oil prices had a significant impact on the balance of trade. Many feel that the trade deficit is unlikely to shrink any time soon, and in the words of the Federal Reserve, this could be "a continuing drag on U.S. economic expansion." The federal budget deficit and jobs received much attention during the presidential election campaign. The housing market remained extremely strong, helped by mortgage interest rates remaining below $6 \%$.

With the positive showing in 2004, the stock market has posted back-to-back annual gains for the first time since 1999. Most of the year's gains came in the fourth quarter, as stock markets around the world rose dramatically. U.S. investors apparently shook off concerns about the presidential election, interest rates, terrorism and Iraq. However, the gains were not uniform across all markets. For the sixth year in a row, small-capitalization U.S. stocks outperformed their large-capitalization counterparts. Also, bargain-seeking "value" investors generally outperformed earningsseeking "growth" investors. Both of these occurrences were contrary to consensus opinion at the beginning of 2004. "Expect the unexpected" is the lesson for investors. International stocks outperformed domestic stocks in 2004 as the U.S. dollar suffered its third consecutive year of decline relative to other world currencies. The beleaguered U.S. currency ended 2004 at a nine-year low against a basket of major currencies and an all-time low against the euro.

An interesting conundrum occurred in the interest rate arena in 2004. As the Federal Reserve raised short-term interest rates, with five increases in 2004 (going from a federal funds rate of $1.00 \%$ to $2.25 \%$ ), longer-term interest rates actually declined slightly. The yield on the 10 -year U.S. Treasury bond was $4.25 \%$ at the start of 2004 and finished the year at $4.22 \%$. Inflation increased slightly in 2004, with the Consumer Price Index All Urban Consumers rising 3.3\%. However, $36 \%$ of the increase was due to increases in energy prices. The "Core" Consumer Price Index (CPI), excluding food and energy, increased $2.2 \%$ in 2004.

The unpredictability of the markets and divergence of returns across asset classes underscores the importance of portfolio diversification, both geographically and by asset class. Leadership among asset classes frequently changes, and the timing of these shifts is not predictable. Therefore, DPSRS maintains a diversified portfolio containing a combination of low-correlating asset classes including domestic and foreign stocks, bonds and other fixed income investments, real estate, and alternative investments.

## Markets and Fund Performance

The U.S. stock market posted moderate gains in 2004, most of it coming after October 25th. For the year 2004, the S\&P 500 Index posted a total return of $10.88 \%$ and the Dow Jones Industrial Average produced 5.36\%. The technology-heavy NASDAQ Composite Index, which led the market in 2003 with a $50 \%$ gain, lost some steam this year, but still posted an $8.59 \%$ gain. However, at its current level of $2,175.44$, it still is a long way from its 5,048.62 high reached in March 2000. The Russell 3000 Index, a benchmark for the broad market, posted an $11.95 \%$ gain. At the start of 2004, due to the perceived point in the economic cycle, many prognosticators were predicting that "growth" stocks would
outperform "value" stocks and that largecompany stocks (large cap) would outperform smaller-company stocks (small cap) in 2004. Not so - the opposite happened. Although the shift to large cap growth likely will occur, it is risky to attempt to predict the timing. The 2004 return for the DPSRS domestic equity portfolio was $14.80 \%$.

International equities outperformed their domestic counterparts in 2004, with returns in U.S. dollar terms substantially helped by the declining dollar. The Morgan Stanley Capital International Europe Australasia Far East (MSCI EAFE) Index, an index of the equity markets in 21 developed countries, returned $12.68 \%$ in local currencies in 2004. However, it returned $20.24 \%$ in U.S. dollars. The U.S. dollar, as measured against eight of the world's major currencies, depreciated $7 \%$ in 2004 to a nine-year low. Many feel that the decline is unlikely to reverse itself any time soon, due to concerns about the large U.S. budget and trade deficits. The System's international stock portfolio returned 19.96\% in 2004.

The bond market surprised many investors in 2004 by posting a gain despite the interest rate increases by the Federal Reserve. As previously mentioned, the yield on the 10 -year U.S. Treasury security closed the year at $4.22 \%$, down from $4.25 \%$ at the start of the year. The year was not without volatility, however, as the 10 -year yield hit $4.87 \%$ in June. The return for the Lehman Aggregate Index was $4.34 \%$ in 2004. The Lehman Aggregate Index is an index of investment grade bonds and is the benchmark used by DPSRS for its fixed income portfolio. The System's fixed income portfolio returned $6.16 \%$ in 2004.

The overall return for the System's total portfolio in 2004 was $12.71 \%$. This exceeded the System's benchmark custom index, which returned $12.13 \%$, and placed the System in the top $30 \%$ of a universe of retirement systems monitored by Hewitt Investment Group, the System's investment consultant. The System's mortgage, real estate, and alternative investment portfolios all showed positive returns in 2004.

## Investment Management ...continued

## Goal

The Statement of Investment Objectives and Policies is designed to enable the investment program of the retirement system to be a major contributor to the long-term accomplishment of the System's mission to provide career employees and their families with a primary source of lifetime income relative to service at retirement, disability or death. Summarized below are some of the major features of the Statement of Investment Objectives and Policies as well as recent investment results.

## Investment Responsibilities

Colorado State Statutes designate the Board of Trustees as the ultimate fiduciary of the assets of the System. The Board must approve all decisions relating to the Statement of Investment Objectives and Policies. The Board has delegated the implementation of the Statement to the Investment Committee. Responsibilities of the Investment Committee include, but are not limited to, recommending investment policy changes to the Board and appointing, monitoring and terminating investment managers.

The Chief Investment Officer supervises and reviews activities and performance of investment managers, recommends changes in the investment program, and monitors the day-to-day investment activities. The investment managers manage the assets and exercise complete investment discretion in accordance with policy statements and guidelines and specific restrictions stated in their Investment Management Agreements. The managers are responsible for communicating with the Chief Investment Officer regarding all significant matters pertaining to investments of the fund assets.

## Asset Allocation

The System's asset allocation is approved by Board of Trustees as part of the Statement of Investment Objectives and Policies. Although the Statement of Investment Objectives and Policies was revised December 6, 2004, the target asset allocations and related ranges have not been revised since September 9, 2002.

The overall target asset allocation can be divided into $64 \%$ equity-type investments (domestic, international, real estate equity, and alternative assets) and $36 \%$ fixed incometype investments (fixed income and mortgages). The target allocation ranges for specific asset classes are noted below; however, within the equity-type investment category, there are further constraints so that the total of the equity-type investments does not fall outside of the range of $56 \%$ to $72 \%$ of total investments.

## Table One <br> Asset Allocation By Asset Class

$\left\{\begin{array}{llll}\text { Asset Class } & \text { Low } & \text { Target } & \text { High } \\ \hline \text { Total Domestic Equities } & 27 \% & 32 \% & 37 \% \\ \text { Large Capitalization Equities } & 11 & 16 & 21 \\ \text { Small/Mid Capitalization Equities } & 11 & 16 & 21 \\ \text { International Equities } & 12 & 17 & 22 \\ \text { Alternative Assets } & 2 & 5 & 10 \\ \text { Real Estate Equity } & 7 & 10 & 13 \\ \text { Fixed Income } & 28 & 36 & 44 \\ \text { Fixed Income Securities } & 20 & 23 & 26 \\ \text { Real Estate Mortgages } & 8 & 13 & 18\end{array}\right\}$

## Investment Guidelines

## Equity Investments

The portion of assets invested in publicly traded equity securities is diversified between domestic and international, by company capitalization, and by manager style. A portion of the domestic equity portfolio is managed passively (indexed), and a portion is actively managed.

The asset allocation provides for approximately $16 \%$ in large capitalization domestic issues, $16 \%$ in small/mid capitalization domestic issues, and $17 \%$ in international issues. As a general practice, equity holdings in a single company should not exceed $5 \%$ of a manager's portfolio at cost or $8 \%$ at market value. Also, as a general practice, holdings in any single industry sector should not exceed $40 \%$ of the total related portfolio, i.e., large capitalization domestic, small/mid capitalization domestic, and international portfolio. In certain instances, these guidelines can be altered depending on a particular manager's style and expertise, if stated in the Investment Management Agreement.

## Fixed Income Investments

The fixed income asset class includes a broad array of debt securities, including U.S. Government and agency securities, corporate notes and bonds, short-term money market securities, such as certificates of deposit and commercial paper, mortgage and other asset-backed securities and securities issued by non-U.S. governments and corporations. The Board of Trustees recognized that there are periods during economic and capital market cycles where utilization of debt securities and derivative securities of various sectors, currencies, and structures is appropriate in a welldiversified portfolio in order to manage risk and to provide the potential for above average long-term investment returns.

Except for U.S. Government and agency guaranteed securities, concentrations in the securities of a single entity are limited to not more than $5 \%$ of the fixed income securities at market value. Concentrations in the corporate securities of a single industry are limited to not more than $25 \%$ of fixed income securities at market value.

Deviations from the standard guidelines must be stated and approved in the Investment Management Agreement.

## Mortgage Investments

This asset class can include all mortgage investments except residential mortgagebacked securities, such as mortgages on income-producing properties, mortgage pools, interests in commingled funds or co-investment vehicles which invest in mortgages, investment management separate accounts, Commercial Mortgage-Backed Securities, and interest in participating and convertible mortgages where it is intended to be primarily a debt rather than an equity investment.

In order to protect the overall performance and preservation of fund assets, mortgages that are secured by a single property are limited in size to not more than $5 \%$ of the total mortgage portfolio. Due to the broad diversification characteristics represented by mortgage pools and commingled mortgage funds, the $5 \%$ limitation does not apply to the System's participation in such investment vehicles.

## Equity Real Estate Investments

Investments in this asset class can include any of the following: direct ownership of real estate properties, ownership in commingled funds that invest primarily in equity real estate, interests in hybrid debt instruments where the investment is deemed to be more of an equity rather than a fixed income investment, investment management separate account, investments in real estate joint ventures, partnerships or similar vehicles or investments in Real Estate Investment Trusts.

Real estate assets are diversified geographically by property type and by property size. The System will, as a general practice, not own more than a $20 \%$ interest in any one commingled fund, nor will an initial investment in any one individual property be more than $10 \%$ of the total equity real estate portfolio.

## Alternative Assets

Alternative Assets is considered a distinct asset class in the DPSRS Statement of Investment Objectives and Policies and generally is defined as assets that are not publicly traded, lack liquidity, and are not subject to financial market regulations, with the exception of cash, equity real estate and mortgages. Allocations to alternative assets
typically serve one of two purposes: help enhance portfolio returns through higherrisk investment strategies or help diversify portfolios through investments that generate returns with very low correlation to traditional asset classes. For the purposes of DPSRS investment policy, the alternative assets asset class is divided into two separate categories: private equity and other alternative investments. Currently, all DPSRS investments in this asset class are in the private equity category. The investment activities of private equity firms encompass every aspect of the lifecycle of a business enterprise, ranging from start-ups to mature companies. The two largest sub-segments within private equity are venture capital and buyouts, which are distinguished from each other primarily by the size of the investment, risk associated with the company's cash flows, and the role of debt in the transaction.

Unlike traditional asset classes, the difference between top and bottom quartile performance in many alternative investments is vast. Hence, a premium is placed on manager selection and diversification. Emphasis is placed on broad exposure to various economic sectors, geographical locations, development stages, transaction types, and managers. The System, as a general practice, will not own more than a $10 \%$ interest in any single alternative asset investment.

## Investment Management ...continued

## Investment Management Objectives

The Statement of Investment Objectives and Policies provides for performance objectives for the total fund as well as for individual managers. As presented in the table below, the performance of the total fund is evaluated relative to inflation, an appropriate universe of other pension funds, and a Custom Index. Individual external investment managers are evaluated relative to an appropriate universe and a relevant index. The Investment Committee meets quarterly to review the actual performance of the total fund, each asset class, and each investment manager. Performance evaluations are performed quarterly by Hewitt Investment Group, the System's investment consulting firm, and are distributed to the Board of Trustees.

|  | Total Fund | Equity Specialist Managers | Fixed Income Specialist Managers |
| :---: | :---: | :---: | :---: |
| Relative to inflation | CPI $+5 \%$ annually | N/A | N/A |
| Relative to an institutional universe | Top 60\% | Top 40\% | Top 40\% |
| Relative to an index | Exceed a Custom Index weighted as follows: <br> Russell 1000 <br> -- 16\% <br> Russell 2500 <br> $-21 \%^{1}$ <br> Lehman Aggregate -- 23\% <br> Lehman A <br> Intermediate Credit -- 13\% <br> NCREIF Property -- 10\% <br> MSCI EAFE <br> -- 17\% | Large Cap: Exceed appropriate Russell 1000 Index Small/Mid Cap: Exceed appropriate Russell 2500 Index International: Exceed EAFE Index Real Estate Equity: Match NCREIF Property Index | Exceed Lehman Aggregate Index |

${ }^{1}$ Includes 5\% allocation to Alternative Assets

The objective of investment in mortgages is to maintain a portfolio of high quality mortgage investments that provide an alternative to other fixed income investments. With the mix of mortgage investments being so varied, there is no nationally recognized published index that would approximate the mix of investments in the mortgage portfolio. However, it is expected that the mortgage investment portfolio should produce returns that exceed the CPI by at least $4 \%$ annually over a three-to-five-year period.

Investments in equity real estate are structured to create a diversified real estate portfolio of high quality property assets to provide a hedge against inflation, diversify the fund's asset base and stabilize overall fund investment performance. Total return shall include income as well as appreciation or depreciation. It also is expected that the total return of the total equity real estate portfolio will at least match the total return of the NCREIF Property Index over a seven-to-ten-year time horizon.

Currently, all investments in the alternative assets asset class consist of private equity investments. The goal of private equity investing is to generate substantially greater returns than the long-term returns from the public equity markets, thereby enhancing overall portfolio returns. However, achieving such performance comes at a price: greater levels of risk and very little liquidity. Moreover, measuring and evaluating the performance of private equity investments is more complicated than for traditional asset classes for a variety of reasons. First, the illiquid nature of private equity investments makes it difficult to ascertain value on an ongoing basis. Not until all of a partnership's assets are liquidated at termination can the real return be calculated. Second, there is a wide variety of styles and strategies utilized by private equity managers, which makes it difficult to construct a reasonable benchmark. Third, private equity deals require a long holding period from investment through liquidation.

## Safeguarding of Assets

Marketable securities owned by the System are held under a custodial arrangement with The Northern Trust Company in Chicago, Illinois. In addition to safekeeping the assets, the custodian also is responsible for the timely and accurate settlement of securities transactions as well as the collection and accounting for all income receivable from the investments. Investments that are managed by outside managers using a commingled vehicle are held under similar custodial arrangements. The Northern Trust Company's securities lending operations generated additional income of approximately \$513,000 for the System during 2004.

The System's own internal accounting department verifies and reconciles the activity of the custodian and the investment managers while maintaining financial records according to governmental accounting standards. Annual audit and actuarial
examinations also are performed by independent professional firms to provide assurance of the integrity of the System's financial statements and long-term actuarial funding.

## Historical Performance

Presented below are the annual total returns from each asset class for the 2000-2004 period as well as the compounded three-year and fiveyear total returns. These results have been prepared by the System's outside investment performance consultant, Hewitt Investment Group, and are time-weighted returns computed in conformance with the presentation standards of the Association for Investment Management and Research. Comparable indexes also are presented below each asset class.

## Total Returns

## List of Largest Assets Held

December 31, 2004
Largest Stock Holdings

|  | Shares | Stock | Fair Value |
| :--- | ---: | :--- | ---: |
| 1 | 139,600 | General Dynamics | $\$ 14,602,160$ |
| 2 | 152,700 | ITT Industries | $12,895,515$ |
| 3 | 130,720 | Progressive Corporation | $11,090,285$ |
| 4 | 256,400 | Yahoo | $9,661,152$ |
| 5 | 81,000 | Ebay | $9,418,680$ |
| 6 | 115,300 | Peabody Energy | $9,328,923$ |
| 7 | 266,775 | Network Appliance | $8,862,265$ |
| 8 | 152,500 | Wachovia Corporation | $8,021,500$ |
| 9 | 141,200 | Monsanto | $7,843,660$ |
| 10 | 143,480 | Genentech | $7,811,051$ |

Largest Bond Holdings

|  | Par | Description | Coupon | Maturity | Rating | Fair Value |
| :--- | ---: | :--- | :--- | :--- | :--- | ---: |
| 1 | $\$ 22,040,000$ | U.S. Treasury Bond | $5.375 \%$ | $02 / 15 / 2031$ | AAA | $\$ 23,832,469$ |
| 2 | $15,410,000$ | U.S. Treasury Notes | 3.500 | $11 / 15 / 2009$ | AAA | $15,337,758$ |
| 3 | $12,600,000$ | FHLMC Gold 15 Year | 7.000 | $01 / 01 / 2020$ | AAA | $13,348,125$ |
| 4 | $12,960,000$ | U.S. Treasury Notes | 4.250 | $11 / 15 / 2013$ | AAA | $13,041,505$ |
| 5 | $11,770,000$ | U.S. Treasury Notes | 4.250 | $08 / 15 / 2014$ | AAA | $11,796,212$ |
| 6 | $11,050,000$ | U.S. Treasury Notes | 3.000 | $11 / 15 / 2007$ | AAA | $10,981,799$ |
| 7 | $9,540,000$ | GNMA I 30 Year Single Family | 6.000 | $01 / 01 / 2035$ | AAA | $9,882,849$ |
| 8 | $9,162,229$ | CMO Master Alternative | 6.500 | $07 / 25 / 2034$ | AAA | $9,515,937$ |
| 9 | $6,999,209$ | CMO Morgan Stanley | 6.000 | $06 / 25 / 2034$ | AAA | $7,187,313$ |
| 10 | $6,399,000$ | FNMA Pool \#735139 | 7.000 | $12 / 01 / 2034$ | AAA | $6,769,577$ |

A complete list of portfolio holdings is available upon request.

## Investment Summary

Diversification of Assets at December 31, 2004


| Type of investment | Financial | ecember 31, 200 | Allocation | \% Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assets | Adjustment | Assets | Actual | Target |
| Cash | \$ 107,612,418 | \$ $(89,096,950)$ | 18,515,468 | 1\% | 0\% |
| Fixed income: |  |  |  |  |  |
| Corporate securities | 286,261,759 | 13,137,309 | 299,399,068 |  |  |
| Government securities | 238,330,612 |  | 238,330,612 |  |  |
| Total fixed income | 524,592,371 | 13,137,309 | 537,729,680 | 21 | 23 |
| Mortgage investments | 201,930,350 |  | 201,930,350 | 8 | 13 |
| Domestic stocks | 950,333,340 | 12,028,579 | 962,361,919 | 38 | 32 |
| International stocks | 496,898,036 | 17,261,610 | 514,159,646 | 20 | 17 |
| Equity real estate | 261,194,626 | $(32,718,773)$ | 228,475,853 | 9 | 10 |
| Alternative assets | 89,997,203 |  | 89,997,203 | 3 | 5 |
| Investments and cash | 2,632,558,344 | \$ $(79,388,225)$ | 2,553,170,119 | 100\% | 100\% |
| Net unsettled trades |  |  | 46,669,452 |  |  |
| Notes payable |  |  | 32,718,773 |  |  |
| Securities lending collateral pool | 298,017,707 |  | 298,017,707 |  |  |
| Total investments and cash | \$ 2,930,576,051 |  | \$ 2,930,576,051 |  |  |

In measuring the progress in reaching target asset allocation goals, investment assets are classified differently from the classification for financial reporting purposes. Investment manager performance is measured on the total account value, including cash retained by the manager and excluding debt placed on investment assets. In addition, the cash due or payable on unsettled transactions is reflected as an asset or liability for financial reporting purposes, but it is considered settled in determining the value of the managed account.

## Schedule of Fees and Commissions

|  | Assets under management | Fees | Commissions |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Shares | Amount | Per Share |
| Investment manager fees |  |  |  |  |  |
| Fixed income managers | \$ 632,204,789 | \$ 1,147,303 | - | \$ | \$ |
| Equity managers | 1,447,231,376 | 6,450,221 | 107,591,020 | 2,784,066 | 0.02 |
| Other investments | 553,122,179 | 1,001,273 | 18,591, | - | - |
| Total investment manager fees | \$ 2,632,558,344 | 8,598,797 | 107,591,020 | 2,784,066 | 0.02 |
| Other investment service fees |  |  |  |  |  |
| Custodian fees |  | 167,311 |  | - | - |
| Securities lending fees |  | 2,850,621 |  |  |  |
| Commission recapture income |  |  | - | $(354,007)$ | - |
| Total investment service fees |  | \$ 11,616,729 | 107,591,020 | \$ 2,430,059 | \$ 0.02 |




## GABRIEL, ROEDER, SMITH \& COMPANY

Consultants \& Actuaries
One Towne Square • Suite $800 \cdot$ Southfield, Michigan 48076 • 248-799-9000 • 800-521-0498 • fax 248-799-9020
Board of Trustees
April 21, 2005
Denver Public Schools Retirement System
1301 Pennsylvania Street, Suite 700
Denver, CO 80203-5014
Dear Board Members:
The basic funding objective of the Denver Public Schools Retirement Systems (DPSRS) is to establish and receive contributions which, when expressed in terms of the percentage of active member payroll, will remain approximately level from generation to generation, and when combined with present assets and future investment return will be sufficient to meet the financial obligations of DPSRS to present and future retirees and beneficiaries.

The annual actuarial valuation process develops contribution rates that are sufficient to fund the current cost (i.e., the costs assigned by the valuation method to the year of service about to be rendered), as well as to fund unfunded actuarial accrued liabilities as a level percent of active member payroll. The most recent annual valuation was completed based upon census data, asset data, and plan provisions as of December 31, 2004. The valuation is performed in accordance with standards of practice prescribed by the Actuarial Standards Board. Each of the actuaries involved is a member of the American Academy of Actuaries and works exclusively in the public sector arena.

The System's administrative staff provides the actuary with data for the actuarial valuations. The actuary relies on the census data after reviewing it for internal and year-to-year consistency. Asset information was accepted without further audit. Assets are valued on a market related basis that recognizes the difference between actual and assumed investment return over an open five-year period.

Schedules in the Financial Section prepared by the actuary were:

- Schedule of funding progress
- Schedule of employer contributions

Schedules in the Actuarial Section prepared by the actuary were:

- Percent of members separating before retirement
- Percent of eligible members retiring next year
- Individual pay increase assumptions
- Schedule of contributing, affiliate and deferred member valuation data
- Schedule of retirees and beneficiaries added to and removed from benefit payroll
- Solvency test
- Analysis of financial experience

Schedules in the Statistical Section prepared by the actuary were:

- Schedule of average benefit payments
- Schedule of retired members and beneficiaries by option

The assumptions and methods used are internally consistent and comply with the requirements of Statement No. 25 of the Governmental Accounting Standards Board. The valuation assumptions were based on a study of DPSRS experience covering the 2001-2003 period.

Effective July 1, 2005, the funding policy consists of a 4-year phase-in of the employer contribution rate to the level recommended by the actuary. For the 2006-2007 fiscal year, this results in a funding policy contribution rate of $11.14 \%$ of compensation. The annual required contribution (ARC) under GASB 25 is equal to $14.47 \%$ of compensation. The DPSRS was $88.2 \%$ funded as of December 31, 2004 based on the DPSRS market related value of assets.

Based upon the results of the December 31, 2004 valuations, the Denver Public Schools Retirement System is in sound condition in accordance with actuarial principles of level percent of payroll financing.

Respectfully Submitted,
GABRIEL, ROEDER, SMITH \& COMPANY


Judith A. Kermans, E.A., M.A.A.A.


Norman L. Jones, F.S.A., M.A.A.A.

## Summary of Principal Plan Provisions and Organization

## Background

The System was established by the Board of Education of School District No. 1 on December 1, 1945, to provide defined retirement, death and disability benefits to participating employees. The organization and amendments of the Plan have been carried out in accordance with the provisions of Colorado law. The System Retirement Trust Fund is designated as a trust fund established to accomplish the objectives set forth in the Plan.

The responsibility for the general administration, investment of assets, and proper operation of the System is vested in an 11-member board of managers known as the Board of Trustees.

The daily administration of the retirement plan is the responsibility of the Executive Director of the System who is appointed by the Board of Trustees. The retirement organization consists of four major divisions. The Retirement Administration Office has the responsibility for administrative operations, including contribution, service and salary maintenance, retirement estimate preparation and finalization, and administration of the retirement payroll. The Accounting Office generally is responsible for the processing of the retirement payroll and all financial accounting and reporting for the retirement plan. The Chief Investment Officer is the custodian of the funds held on behalf of the System and directs the activities of the third division, the Office of Fund Investments. All of the offices are provided with data processing support by the Information Systems Department.

## Contributions and Membership

## Contributing members receive benefits

 based upon years of earned service and their highest average salaries. Prior to retirement, members are required to contribute $8 \%$ of regular compensation. Contributions currently accumulate interest monthly at the effective annual rate of $5 \%$. Interest crediting will continue at $5 \%$ in future years unless changed by action of the Board of Education. The contributions and the interest are returned to the member's beneficiary or to the member upon his or her death or termination of employment prior to retirement, respectively. In the event of the member's death prior to retirement, his or her beneficiary may elect to have survivor benefits paid to the eligible survivors in lieu of the return of the member's contributions with interest.Affiliate members are part-time or temporary employees of the District who have applied and been accepted for affiliate membership. Generally, continuously-employed employees contribute $6 \%$ of compensation paid prior to July 1,1998 , and $8 \%$ of compensation paid on or after July 1, 1998. Affiliate members receive a benefit determined in the same manner as provided for contributing members, except that career average salary is substituted for highest average salary in computing such benefit. Upon termination of affiliate membership or death prior to retirement, all of the member's contributions, together with interest, are returned to the member or in the event of the member's death, to his or her beneficiary.

Disability retirement may be granted to either classification of membership in case of disability prior to eligibility for normal retirement. The amount of such benefits depends upon the class of membership and accrued service.

Optional forms of retirement allowance, which provide a continuance or a lump-sum death benefit to a member's beneficiary, are available to all members upon retirement.

## Service Retirement Benefits

## I. ELIGIBILITY

A. Superannuation Retirement

1. Attained age 55 with 25 or more years of earned and outside service of which 10 may be outside service
2. Attained age 65 with 5 or more years of earned service
3. Attained age 50 with 30 or more years of earned service
B. Optional Early Retirement
4. Attained age 55 with 15 or more years of earned service
5. Attained age younger than 55 with 25 or more years of earned service

## II. BENEFITS

A. Superannuation Retirement Single Life Annuity
2.5\% of Highest Average Salary is given for every year of earned service. Highest Average Salary is the average monthly compensation of the 36 months of earned service having the highest rates multiplied by twelve.

## Summary of Principal Plan Provisions and Organization ...continued

B. Optional Early Retirement Single Life Annuity

Same provisions exist as for superannuation retirement with a $4 \%$ reduction in allowance applied for each year the member lacks eligibility for superannuation retirement. Proration on a monthly basis is applied for partial years.
C. Minimum Benefits

A minimum pension benefit equal to $\$ 15$ per year for each of the first 10 years of earned service and $\$ 20$ per year thereafter is guaranteed by the provisions of the Plan.

## Deferred Retirement Benefits

I. ELIGIBILITY-Five or more years of earned service
II. BENEFITS (Pension and Annuity)

Determination of benefits is the same as for superannuation retirement. Benefits are payable at attained age 55 with 25 years of earned and outside service, at age 65 with fewer than 25 years of service, and for members who terminate on or after January 1, 2001, at attained age 50 with 30 years of earned service. Also available at the time a member who resigns on or after January 1, 2001, becomes eligible to draw a deferred benefit is a choice of a refund of $200 \%$ of accumulated contributions, a money purchase retirement benefit based on $200 \%$ of accumulated contributions plus the minimum employer-provided benefit, or the existing defined benefit provided by the Plan.

## "Automatic" <br> Retirement Benefits

In case of the death of any affiliate or contributing member who was eligible for retirement, the Retirement Plan provides for an automatic retirement as of the day after the date of death.

## Disability Retirement Benefits

I. ELIGIBILITY-Five or more years of earned service with the District
II. BENEFITS (Pension and Annuity)

Determination of benefits is the same as for superannuation retirees who retire under the provisions of a "Single Life Annuity." Recalculation occurs at age 55 if earned and outside service at the time of disability is 25 years or more or at age 50 if earned service at the time of disability is 30 years or more. Otherwise, recalculation occurs at age 65 .

- Retirement Benefits are subject to the limits set forth in the United States Internal Revenue Code.
- This Summary generally describes the basic benefits available under the Plan as it existed December 31, 2004, and shall in no way be taken as the basis of, or creating, any contractual rights between the District or the System and any person or employee.


## Retirement Options as of December 31, 2004

## Option A

Option A is a single life annuity, which is defined as a specified sum of money payable monthly to an annuitant from the time of his or her retirement until death. At the annuitant's death, if he or she has not received in retirement benefits the total amount of accumulated contributions at the time or retirement, the balance is paid to the designated beneficiaries in one lump sum.

## Option B

Option B is an installment refund annuity, which is defined as a somewhat smaller sum of money than the amount which would be payable under Option A but which is the actuarial equivalent thereof, payable monthly to an annuitant from the time of his or her retirement until his or her death. Additionally, if the annuitant dies before receiving an amount equal to the total of his or her reserve, the payments continue to his or her designated beneficiaries or estate until the total amount of the payments made to the annuitant and to the beneficiaries or estate is equal to the total amount of reserve allocated to the payment of said annuitant's retirement allowance.

## Summary of Principal Plan Provisions and Organization ...continued

## Option C

Option C is a joint-survivorship annuity, which is defined as a somewhat smaller sum of money than the amount which would be payable under Option A but which is the actuarial equivalent thereof, payable monthly to an annuitant from the time of retirement so long as he or she lives and thereafter to his or her designated co-annuitant, so long as the designated co-annuitant lives. The designation of the co-annuitant is effective upon the effective date of the member's retirement and subsequently may not be changed. For all retirements effective on or after January 1,1998 , in addition to designating a co-annuitant, the member designates a contingent beneficiary(ies) and has the exclusive right to change such designation of contingent beneficiary(ies) at any time prior to his or her death. If, at the date of death of the annuitant and the designated co-annuitant, whichever is the later, the total number of monthly payments made does not equal at least 120 full months, the remainder necessary to equal 120 full monthly payments is paid in equal shares monthly to the member's contingent beneficiary(ies). In the event of the death(s) of all contingent beneficiaries, prior to the deaths of the annuitant and the co-annuitant, the remaining amount due, at the death of the annuitant or co-annuitant, whichever is the later, is commuted and paid in one lump sum to the estate of the annuitant or the co-annuitant, whoever dies later. In the event any contingent beneficiary survives such later death and thereafter dies, the remainder of payments due that beneficiary is commuted and paid to his or her estate.

In case of the death of the designated coannuitant under Option C after the date of application for retirement and before the effective date of retirement, the member may make a change of option or designate a new co-annuitant within 30 days after the death of the previously designated co-annuitant and subject to the appropriate recalculation of the retirement allowance.

## Option P3

Option P3 is a joint-survivorship option, which is defined as a somewhat smaller sum of money than the amount which would be payable under Option A but which is the actuarial equivalent thereof, payable monthly to an annuitant from the time of retirement so long as he or she lives and thereafter to his or her designated co-annuitant, so long as the designated co-annuitant lives. The designation of the co-annuitant is effective upon the effective date of the member's retirement and subsequently may not be changed. If the annuitant and co-annuitant should die prior to having received in retirement benefits the total amount of accumulated contributions at the time of retirement, the balance is paid to the designated beneficiaries in one lump sum. If the co-annuitant should pre-decease the annuitant, the benefit will recalculate to an Option A benefit amount. If the annuitant should divorce from the co-annuitant, the district courts have jurisdiction to allow the annuitant to remove his or her spouse as the named co-annuitant at which point the benefit will recalculate to an Option A benefit amount.

## Option D

Option D is a reduced single life annuity, which is defined as a somewhat smaller sum of money than the amount which would be payable under Option A, the portion thereof attributable to the pension share of retirement allowance being the same as under Option A and the annuity share of the retirement allowance being the actuarial equivalent of such share under Option A. The benefit is payable monthly to an annuitant from the time of retirement so long as he or she lives, with a cash refund on his or her death to the designated beneficiaries or to his or her estate, of any excess of the accumulated contributions of the member at the time of the effective date of retirement over the total amount of the annuity share of the retirement allowance paid or payable to the annuitant to and including the date of death.

## Summary of Principal Plan Provisions and Organization ...continued

## Option E

Option E is a joint-survivorship annuity, which is defined as a somewhat smaller sum of money than the amount which would be payable under Option A but which is the actuarial equivalent thereof, payable monthly to an annuitant from the time of retirement so long as he or she lives. Upon the death of the annuitant, an amount equal to onehalf of the monthly amount paid to the annuitant is payable monthly to his or her designated co-annuitant so long as he or she lives. The designation of the co-annuitant is effective upon the effective date of the member's retirement and subsequently may not be changed. For all retirements effective on or after January 1, 1998, in addition to designating a co-annuitant, the member designates a contingent beneficiary(ies) and has the exclusive right to change such designation of contingent beneficiary(ies) at any time prior to his or her death. If, at the date of death of the annuitant and the designated co-annuitant, whichever is the later, the total number of monthly payments made does not equal at least 120 months, the remainder necessary to equal 120 monthly payments is paid in equal shares monthly to the member's contingent beneficiary(ies), using the same amount payable to the designated co-annuitant.

In the event of the death(s) of all contingent beneficiaries, prior to the deaths of the annuitant or the co-annuitant, the remaining amount due, at the death of the annuitant or co-annuitant, whichever is the later, is commuted and paid in one lump sum to the estate of the annuitant or the co-annuitant, whoever dies later. In the event any contingent beneficiary survives such later death and thereafter dies, the remainder of payments due that beneficiary is commuted and paid to his or her estate.

In case of the death of the designated co-annuitant under Option E after the date of application for retirement and before the effective date of retirement, the member may make a change of option or designate a new co-annuitant within 30 days after the death of the previously designated co-annuitant and subject to the appropriate recalculation of the retirement allowance.

## Option P2

Option P2 is a joint-survivorship option, which is defined as a somewhat smaller sum of money than the amount which would be payable under Option A but which is the actuarial equivalent thereof, payable monthly to an annuitant from the time of retirement so long as he or she lives and thereafter to his or her designated co-annuitant, so long as the designated co-annuitant lives, in a monthly amount equal to one-half of what the annuitant was receiving. The designation of the co-annuitant is effective upon the effective date of the member's retirement and subsequently may not be changed. If the annuitant and co-annuitant should die prior to having received in retirement benefits the total amount of accumulated contributions at the time of retirement, the balance is paid to the designated beneficiaries in one lump sum. If the co-annuitant should pre-decease the annuitant, the benefit will recalculate to an Option A benefit amount. If the annuitant should divorce from the co-annuitant, the district courts have jurisdiction to allow the annuitant to remove his or her spouse as the named co-annuitant at which point the benefit will recalculate to an Option A benefit amount.

## Summary of Principal Plan Provisions and Organization ...continued

## Survivor Benefits

(On or after January 1, 1988, the deceased member was an active, contributing member or a contributing member retired for disability who died prior to eligibility for normal retirement and benefit recalculation.)
I. ELIGIBILITY-Five or more years of continuous earned service with the District

## II.BENEFITS

## MONTHLY BENEFIT

SURVIVOR

| 1. Child/Children | 10\% of Highest Average Salary for each child up to a limit of $30 \%$ or $\$ 160$ for each child up to a limit of $\$ 480$, whichever is greater |
| :---: | :---: |
| 2. Spouse with eligible child/children (fewer than 15 years of member earned service) | The difference between (1) above and $30 \%$ of Highest Average Salary or $\$ 480$, whichever is greater |
| 3. Spouse with eligible child/children (at least 15 years of member earned service but fewer than 25 years of service) | The difference between (1) above and $40 \%$ of Highest Average Salary or $\$ 480$, whichever is greater |
| 4. Spouse with eligible child/children (25 years of member earned service or more) | The difference between (1) above and $40 \%$ of Highest Average Salary plus an additional $2 \%$ for each year of service beyond 25 years, or $\$ 480$, whichever is greater |
| 5. Dependent Parent | $10 \%$ of Highest Average Salary for each parent or \$240 for each parent, whichever is greater |
| 6. Spouse (fewer than 15 years of member earned service, payable at age 60) | 30\% of Highest Average Salary or \$480, whichever is less |
| 7. Spouse (at least 15 years, but fewer than 25 years of member earned service, payable at age 50) | $30 \%$ of Highest Average Salary plus an additional $1 \%$ for each year of service beyond 15 years, or $\$ 480$, whichever is greater |
| 8. Spouse (at least 25 years of member earned service, payable at age 50) | 40\% of Highest Average Salary plus an additional 1\% for each year of service beyond 25 years, or $\$ 480$, whichever is greater |

Unmarried children are eligible for survivor benefits to age 18. Unmarried children enrolled in an accredited school full time are eligible until age 23. Disabled children of any age who are unmarried and were financially dependent upon the member are eligible. Spouse/ children's benefits are payable as long as there is an eligible child.

## Annual Retirement Allowance Adjustment (ARAA)

Effective on January 1 of each year, an increase in retirement or survivor benefits becomes payable based on $31 / 4 \%$ of the previous year's retirement or survivor benefit.

## Summary of Actuarial Assumptions and Methods

## Assumptions as of January 1, 2005

a. The investment return used in the valuation is $8.50 \%$ per annum, compounded annually (net after expenses), and was adopted in 2004.
b. The post-retirement mortality tables used in evaluating the liabilities of service retirement and disability benefits to be paid under the Plan are based on the 2001-2003 DPSRS Experience Study. These assumptions were adopted in 2004.
c. The probabilities of pre-retirement death, disability, superannuation, and nonvested withdrawal are based on the Plan's experience. Probabilities for sample ages are shown below and were adopted in 2004.
d. Individual salaries are assumed to increase by merit and longevity plus $4.50 \%$ for inflation per year. These increases are shown for sample ages below. Active membership is assumed to remain constant. These assumptions were adopted in 2004.
e. The actuarial value of assets is the expected value of assets plus 20\% of the difference between the expected and the adjusted market value of assets as of the valuation date.
f. The retirement plan's liabilities are funded on the Entry Age Normal Actuarial Cost method. Beginning July 17, 1997, the employer contribution rate was decreased to $4.26 \%$ from $15.75 \%$ as a result of the issuance of Pension Certificates of Participation and full funding of the unfunded actuarial accrued liability. Actuarial liabilities or surpluses are amortized over 30 years as a level percentage of increasing payroll subsequent to each annual valuation.
g. Annual benefit increases are equal to $3.25 \%$ of the previous year's retirement benefit.
h. The assumptions and methods are specified by the System upon recommendation of the actuary, a qualified member of the American Academy of Actuaries. The information for the schedules in this section is provided by the actuary.
i. Assumptions and methods used for funding purposes meet the parameters set for the disclosures presented in the financial section by GASB Statement №. 25.
j. The last study of the plan's experience took place in 2004. Assumption changes generally are effective in the year subsequent to adoption.

## Percent of Members Separating Before Retirement

For Reasons Other Than Death or Disability
Due to Death or Disability


## Summary of Actuarial Assumptions and Methods ...continued

## Percent of Eligible Members Retiring Next Year (Superannuation)

| Retirement <br> Age | Eligible for Reduced <br> Male | Benefits <br> Female | Male | Manle for Unreduced <br> Female |
| :--- | :--- | :--- | :--- | :--- |
| 50 | $10.00 \%$ | $5.00 \%$ | $25.00 \%$ | $25.00 \%$ |
| 51 | 10.00 | 5.00 | 25.00 | 25.00 |
| 52 | 10.00 | 6.00 | 25.00 | 25.00 |
| 53 | 10.00 | 7.00 | 30.00 | 25.00 |
| 54 | 10.00 | 8.00 | 30.00 | 30.00 |
| 55 | 10.00 | 9.00 | 35.00 | 35.00 |
| 56 | 10.00 | 10.00 | 30.00 | 15.00 |
| 57 | 10.00 | 12.00 | 30.00 | 20.00 |
| 58 | 11.00 | 12.00 | 30.00 | 20.00 |
| 59 | 12.00 | 13.00 | 30.00 | 20.00 |
| 60 | 13.00 | 14.00 | 30.00 | 20.00 |
| 61 | 14.00 | 14.00 | 35.00 | 20.00 |
| 62 | 15.00 | 15.00 | 40.00 | 25.00 |
| 63 | 15.00 | 17.00 | 35.00 | 20.00 |
| 64 | 15.00 | 20.00 | 35.00 | 25.00 |
| 65 | 0.00 | 0.00 | 40.00 | 30.00 |
| 66 | 0.00 | 0.00 | 25.00 | 25.00 |
| 67 | 0.00 | 0.00 | 25.00 | 25.00 |
| 68 | 0.00 | 0.00 | 25.00 | 25.00 |
| 69 | 0.00 | 0.00 | 25.00 | 25.00 |
| 70 | 0.00 | 0.00 | 100.00 | 100.00 |

Individual Pay Increase Assumptions

| Sample <br> Age | Merit and <br> Longevity | Base <br> Inflation | Increase <br> Next Year |
| :--- | :---: | :---: | :---: |
| 20 | $5.00 \%$ | $4.50 \%$ | $9.50 \%$ |
| 25 | 4.50 | 4.50 | 9.00 |
| 30 | 3.60 | 4.50 | 8.10 |
| 35 | 2.80 | 4.50 | 7.30 |
| 40 | 2.10 | 4.50 | 6.60 |
| 45 | 1.40 | 4.50 | 5.90 |
| 50 | 0.80 | 4.50 | 5.30 |
| 55 | 0.40 | 4.50 | 4.90 |
| 60 | 0.00 | 4.50 | 4.50 |
| 65 | 0.00 | 4.50 | 4.50 |

Active Members


Schedule of Contributing, Affiliate and Deferred Member Valuation Data

| Calendar <br> Year <br> Ending | Number of <br> Contributing <br> Members | Payroll at <br> Valuation <br> Date | Average <br> Annual <br> Salary | \% Increase <br> In Average <br> Salary | Number of <br> Affiliate <br> Members | Number of <br> Deferred <br> Members |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1999 | 6,677 | $\$ 264,079,000$ | $\$ 39,551$ | $2.29 \%$ | 39 | 102 |
| 2000 | 7,182 | $292,404,000$ | 40,713 | 2.94 | 31 | 120 |
| 2001 | 7,466 | $307,834,000$ | 41,231 | 1.27 | 31 | 141 |
| 2002 | 7,691 | $331,607,000$ | 43,116 | 4.57 | 31 | 187 |
| 2003 | 7,311 | $318,122,000$ | 43,513 | 0.92 | 28 | 219 |
| 2004 | 7,192 | $315,157,000$ | 43,820 | 0.71 | 31 | 276 |

Summary of Member Data ...continued

Schedule of Retirees and Beneficiaries Added to and Removed from Benefit Payroll

| Calendar <br> Year <br> Ending | Added to Payroll |  | Removed from Payroll |  | Payroll at End of Year |  | Average Annualized Monthly Benefit | \% Increase in <br> Annualized Benefit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annualized Monthly Benefit | Number | Annualized Monthly Benefit | Number | Annualized Monthly Benefit |  |  |
| 1999 | 243 | \$ 522,226 | 122 | \$149,335 | 5,158 | \$ 9,646,294 | \$1,870 | 6.48\% |
| 2000 | 288 | 574,626 | 224 | 326,483 | 5,222 | 10,462,574 | 2,004 | 7.17 |
| 2001 | 476 | 1,281,629 | 184 | 300,047 | 5,514 | 11,781,954 | 2,137 | 6.64 |
| 2002 | 303 | 781,834 | 207 | 333,511 | 5,610 | 12,606,923 | 2,247 | 5.15 |
| 2003 | 260 | 665,284 | 171 | 283,937 | 5,699 | 13,397,013 | 2,351 | 4.63 |
| 2004 | 367 | 1,161,788 | 197 | 355,372 | 5,869 | 14,555,722 | 2,480 | 5.49 |

Retired Members
Retirement Benefits Paid


Average Years Since Retirement: $12.6^{*}$


Average Years Since Retirement: 12.6*

Average Retiree Age: 72.0*


Average Retiree Age: 72.0*

* Includes regular and optional early retirements only. Total recipients: 5,382


## Summary of Member Data ...continued

## Member and Employer Contribution Rates

| Year | Member Rate | Funding Policy <br> Employer Rate | Actual Employer Rate |
| :---: | :---: | :---: | :---: |
| 1995 | 6.0/7.0\% | 16.27\% ${ }^{(2)}$ | 16.27\% |
| 1996 | 6.017.0 | 16.01 | 16.01 |
| 1997 | 6.0/7.0 | 10.01 (4) | 10.01 |
| 1998 | 6.0/7.0/8.0 | 3.47 (6) | 3.47 |
| 1999 | 8.0 | 2.79 (7) | 2.79 |
| 2000 | 8.0 | 2.90 | 2.90 |
| 2001 | 8.0 | 2.90 | 2.90 |
| 2002 | 8.0 | 2.90 (8) | 2.90 |
| 2003 | 8.0 | $3.94{ }^{\text {(1) }}$ | 3.94 |
| 2004 | 8.0 | 6.55 (10) | 6.55 |

${ }^{(1)}$ Contribution rate was $7 \%$ for employees hired or rehired on or after 1/1/95.
${ }^{(2)}$ Regular contribution rate was $12.50 \%$ and 3.77\% for the 1992 Early Retirement Incentive Program (ERIP).
${ }^{(3)}$ The total contribution rate from $1 / 1 / 96$ 6/30/96 was $16.27 \%$ and $15.75 \%$ from 7/1/96-12/31/96, composed of $12.25 \%$ regular contribution and 3.50\% for the 1992 ERIP.
(4) The rate from 1/1/97-7/16/97 was $15.75 \%$ and $4.26 \%$ from 7/17/9712/31/97 as a result of the issuance of Pension Certificates of Participation.
(5) The employee contribution rate increased to $8 \%$ on $7 / 1 / 98$ for all active members.
${ }^{(6)}$ The rate was $4.26 \%$ from $1 / 1 / 98-6 / 30 / 98$ and 2.68\% from 7/1/98-12/31/98.
(7) The rate was $2.68 \%$ from 1/1/99-6/30/99 and 2.90\% from 7/1/99-12/31/99.
${ }^{\text {(8) }}$ The funding policy was amended so that changes in the required employer rate become effective on the July 1 that is 18 months after the end of the calendar year on which the actuarial valuation is based.
${ }^{(9)}$ The rate was $2.90 \%$ from $1 / 1 / 03-6 / 30 / 03$ and 4.98\% from 7/1/03-12/31/03.
(10) The rate was $4.98 \%$ from 1/1/04-6/30/04 and 8.12\% from 7/1/04-12/31/04.

## Funding

## Solvency Test

The solvency test is used to test a system's funding progress. In this test, the actuarial valuation assets are compared to the total actuarial accrued liabilities relative to:

1. active member contributions on deposit
2. liabilities for future benefits to present retirees and beneficiaries
3. liabilities for service already rendered by active members

If the contributions to the System are level in concept and soundly contributed, and if the System continues in its present operational pattern for the indefinite future, the System will pay all promised benefits when due. The employer-financed portion of the aggregate accrued liabilities being fully funded is rare, but the issuance by the School District of Pension Certificates of Participation in July 1997, paid off the unfunded actuarial accrued liabilities of the System.

## Dollars are expressed in thousands.

Aggregate Accrued Liabilities For

| Valuation Date | (1) <br> Active <br> Member Contributions | (2) <br> Retirees and Beneficiaries | (3) <br> Employer- <br> Financed <br> Portion | Valuation Assets | Accrued Liabilities Covered By Assets |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | (1) | (2) | (3) |
| 1/1/00 | \$194,748 | \$1,237,311 | \$551,341 | \$2,044,332 | 100\% | 100\% | 100\% |
| 1/1/01 | 206,820 | 1,431,788 | 733,317 | 2,308,030 | 100 | 100 | 91 |
| 1/1/02 | 200,222 | 1,631,424 | 718,910 | 2,462,548 | 100 | 100 | 88 |
| 1/1/03 | 212,403 | 1,742,486 | 757,404 | 2,465,049 | 100 | 100 | 67 |
| 1/1/04 | 229,828 | 1,841,065 | 722,895 | 2,531,746 | 100 | 100 | 64 |
| 1/1/05 | 226,554 | 2,029,799 | 704,637 | 2,611,524 | 100 | 100 | 50 |

## Analysis of Financial Experience

## Gains and Losses In Accrued Liabilities

During the Years Ended December 31, 2004 and 2003
Resulting From Differences Between
Assumed Experience and Actual Experience

Type of Activity $\quad 2004$| Gain (or Loss) for the Year |
| :---: |
| 2003 |

Age \& Service Retirements. Members retired at younger ages or with higher final average pay than assumed, causing a loss.

Disability Retirements. Disability claims were more or less than assumed, causing a loss or a gain.

Death-in-Service Benefits. Survivor claims were less or more than assumed, causing a gain or a loss.

Withdrawal from Employment. More or fewer liabilities were released by withdrawals than assumed, causing a gain or a loss.

New Entrants. New members entered the plan with some past service, causing a loss.

Pay Increases. There were smaller pay increases than assumed, causing a gain.

Investment Income. Recognized investment income was less than assumed, causing a loss.

Death After Retirement. Retirees lived for a shorter period than assumed, causing a gain.

Other. Miscellaneous gains and losses resulting from data adjustments, recognizing outside and non-qualified service for eligibility, timing of financial transactions, subsidized service purchases, valuation methods, etc.

Loss During the Year from Financial Experience
$\$(7,094,671) \quad \$(1,209,767)$ 45,968
$(609,631)$
$(144,675)$
22,042

4,373,561
$(520,067)$
$(5,677,574)$
(2,722,872)

32,996,399
42,232,133
$(13,898,092)$
$(32,050,165)$

4,867,349
2,342,984
( $16,851,772$ )
(14,593,667)
$\$(1,383,507) \quad \$(7,109,010)$



## Schedules

Schedule of Average Benefit Payments

| Retirement Effective Dates 1/1/99 to 12/31/04 | Years of Earned Service |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | $30+$ |
| 1999 |  |  |  |  |  |  |
| Average Monthly Benefit | \$ 357.56 | \$ 754.60 | \$ 1,286.11 | \$ 1,671.21 | \$ 2,350.92 | \$ 3,202.92 |
| Average Highest Average Salary | \$ 2,275.74 | \$ 2,549.87 | \$ 3,191.19 | \$ 3,178.43 | \$ 3,668.41 | \$ 4,199.02 |
| Number of Active Retirees | 4 | 14 | 22 | 30 | 60 | 79 |
| 2000 |  |  |  |  |  |  |
| Average Monthly Benefit | 462.05 | 860.44 | 1,013.11 | 1,496.16 | 2,459.44 | 3,295.19 |
| Average Highest Average Salary | 2,677.47 | 2,955.91 | 2,486.83 | 2,712.81 | 3,725.52 | 4,254.75 |
| Number of Active Retirees | 6 | 7 | 20 | 16 | 46 | 64 |
| 2001 |  |  |  |  |  |  |
| Average Monthly Benefit | 467.71 | 899.42 | 1,262.10 | 1,905.44 | 2,813.95 | 3,628.69 |
| Average Highest Average Salary | 2,697.14 | 2,877.47 | 2,987.44 | 3,345.98 | 4,032.72 | 4,381.01 |
| Number of Active Retirees | 5 | 20 | 29 | 40 | 117 | 187 |
| 2002 |  |  |  |  |  |  |
| Average Monthly Benefit | 521.62 | 751.59 | 1,637.54 | 2,225.31 | 3,057.29 | 3,832.07 |
| Average Highest Average Salary | 3,128.32 | 2,329.31 | 3,901.55 | 3,900.38 | 4,335.07 | 4,550.10 |
| Number of Active Retirees | 9 | 10 | 30 | 31 | 53 | 95 |
| 2003 |  |  |  |  |  |  |
| Average Monthly Benefit | 466.79 | 1,118.94 | 1,775.46 | 2,577.55 | 2,854.19 | 4,118.90 |
| Average Highest Average Salary | 2,692.13 | 3,492.59 | 3,964.47 | 4,466.57 | 4,060.62 | 4,821.75 |
| Number of Active Retirees | 9 | 19 | 30 | 28 | 62 | 59 |
| 2004 |  |  |  |  |  |  |
| Average Monthly Benefit | 470.83 | 1,365.12 | 1,884.94 | 2,349.34 | 3,176.39 | 4,376.09 |
| Average Highest Average Salary | 2,370.10 | 4,276.25 | 4,295.87 | 4,146.06 | 4,515.08 | 5,203.43 |
| Number of Active Retirees | 6 | 16 | 44 | 28 | 90 | 112 |

## Schedule of Benefit Expenses

|  | Retirement Benefits Paid |  |  |  |
| :--- | :---: | ---: | ---: | :---: |
| Calendar <br> Year | Regular | Disability | Survivors |  |
| 1999 | $\$ 105,393,192$ | $\$ 3,965,017$ | $\$ 1,129,879$ | $\$ 110,488,088$ |
| 2000 | $111,724,928$ | $4,292,644$ | $1,161,674$ | $117,179,246$ |
| 2001 | $125,719,722$ | $4,756,330$ | $1,273,183$ | $131,749,235$ |
| 2002 | $137,126,610$ | $5,178,892$ | $1,298,875$ | $143,604,377$ |
| 2003 | $146,197,007$ | $5,302,929$ | $1,338,715$ | $152,838,651$ |
| 2004 | $156,551,097$ | $5,582,568$ | $1,339,824$ | $163,473,489$ |

Schedule of Revenues By Source

| Calendar Year | Employee |  | Employer |  | Net Investment Income | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | \% of Annual |  |  |
|  | Contributions | Assessments | Contributions | Covered Payroll |  |  |
| 1999 | \$20,649,845 | \$641 | \$ 7,140,565 | 2.79\% | \$ 384,749,549 | \$ 412,540,600 |
| 2000 | 22,869,611 | 0 | 8,007,508 | 2.90 | 185,639,527 | 216,516,646 |
| 2001 | 25,848,785 | 0 | 8,735,015 | 2.90 | $(140,078,546)$ | $(105,494,746)$ |
| 2002 | 28,275,170 | 0 | 9,473,361 | 2.90 | $(166,488,447)$ | $(128,739,916)$ |
| 2003 | 32,665,945 | 0 | 13,023,157 | 3.94 | 449,742,992 | 495,432,094 |
| 2004 | 25,992,388 | 0 | 21,142,815 | 6.55 | 278,447,116 | 325,582,319 |

Schedule of Expenses By Type

| Calendar <br> Year | Benefits | Administrative <br> Expenses | Refunds | Other | Total |
| :--- | :---: | :---: | ---: | ---: | ---: |
| 1999 | $\$ 110,488,088$ | $\$ 1,668,830$ | $\$ 3,369,172$ | $\$(27,483)$ | $\$ 115,498,607$ |
| 2000 | $117,179,246$ | $1,849,893$ | $4,355,309$ | $(201,429)$ | $123,183,019$ |
| 2001 | $131,749,235$ | $2,075,416$ | $3,974,835$ | 0 | $137,799,486$ |
| 2002 | $143,604,377$ | $2,301,329$ | $3,346,228$ | 0 | $149,251,934$ |
| 2003 | $152,838,651$ | $3,233,847$ | $4,893,891$ | 0 | $160,966,389$ |
| 2004 | $163,473,489$ | $3,568,221$ | $6,154,132$ | 0 | $173,195,842$ |

Comprehensive Annual Financial Report

## Retired Members and Beneficiaries By Option

## Retirees and Beneficiaries By Option

at December 31, 2004
C $44 \%$


$\left\{\right.$| Annuity |  |  |
| :---: | :--- | ---: |
| Option | Description | Number |
| A | Single Life | 940 |
| B | Installment Refund | 738 |
| C | Joint Survivorship | 2,509 |
| D | Cash Refund | 983 |
| E | Half Joint Survivorship | 580 |$\}$

B 13\%

A description of the options is included in the Actuarial Section.


| Year | Employee Contribution | \% of Salary | Employer Contribution | \% of Salary |
| :---: | :---: | :---: | :---: | :---: |
| 1945 | \$ 20,970 | 6.00\% | \$ | 0.00\% |
| 1946 | 252,306 | 6.00 | 357,572 | 8.50 |
| 1947 | 293,841 | 6.00 | 524,000 | 10.70 |
| 1948 | 419,941 | 6.00 | 738,101 | 10.55 |
| 1949 | 506,202 | 6.00 | 1,168,423 | 13.85 |
| 1950 | 569,934 | 6.00 | 1,257,920 | 13.24 |
| 1951 | 635,309 | 6.00 | 1,436,528 | 13.57 |
| 1952 | 723,415 | 6.00 | 1,582,645 | 13.13 |
| 1953 | 793,869 | 6.00 | 1,709,244 | 12.92 |
| 1954 | 950,743 | 6.00 | 2,290,531 | 14.46 |
| 1955 | 1,068,710 | 6.00 | 2,335,859 | 13.11 |
| 1956 | 1,192,281 | 6.00 | 2,517,771 | 12.67 |
| 1957 | 1,297,257 | 6.00 | 2,638,519 | 12.20 |
| 1958 | 1,405,086 | 6.00 | 2,700,863 | 11.53 |
| 1959 | 1,512,280 | 6.00 | 2,884,664 | 11.44 |
| 1960 | 1,657,213 | 6.00 | 3,140,426 | 11.37 |
| 1961 | 1,794,234 | 6.00 | 3,389,182 | 11.33 |
| 1962 | 1,942,689 | 6.00 | 3,666,565 | 11.32 |
| 1963 | 2,170,253 | 6.00 | 4,129,051 | 11.42 |
| 1964 | 2,296,928 | 6.00 | 4,565,531 | 11.93 |
| 1965 | 2,405,285 | 6.00 | 3,623,247 | 9.04 |
| 1966 | 2,542,358 | 6.00 | 3,778,176 | 8.92 |
| 1967 | 2,794,250 | 6.00 | 4,101,055 | 8.81 |
| 1968 | 3,037,008 | 6.00 | 4,413,826 | 8.72 |
| 1969 | 3,344,069 | 6.00 | 4,790,185 | 8.59 |
| 1970 | 3,683,017 | 6.00 | 5,184,773 | 8.45 |
| 1971 | 4,249,617 | 6.00 | 6,116,256 | 8.64 |
| 1972 | 4,498,354 | 6.00 | 6,627,970 | 8.84 |
| 1973 | 4,657,945 | 6.00 | 6,992,933 | 9.01 |
| 1974 | 5,051,951 | 6.00 | 7,565,764 | 8.99 |
| 1975 | 5,787,021 | 6.00 | 8,699,367 | 9.02 |
| 1976 | 6,540,784 | 6.00 | 9,806,004 | 9.00 |
| 1977 | 6,761,325 | 6.00 | 10,597,741 | 9.40 |
| 1978 | 7,051,761 | 6.00 | 11,318,077 | 9.63 |
| 1979 | 7,322,772 | 6.00 | 12,168,251 | 9.97 |
| 1980 | 7,749,670 | 6.00 | 13,600,671 | 10.53 |
| 1981 | 8,251,053 | 6.00 | 17,120,274 | 12.45 |
| 1982 | 8,603,848 | 6.00 | 20,774,584 | 14.49 |
| 1983 | 9,060,315 | 6.00 | 22,989,125 | 15.22 |
| 1984 | 9,382,871 | 6.00 | 23,451,590 | 14.99 |
| 1985 | 10,015,452 | 6.00 | 24,775,279 | 14.85 |
| 1986 | 10,502,019 | 6.00 | 26,565,337 | 15.19 |
| 1987 | 10,722,718 | 6.00 | 27,089,048 | 15.17 |
| 1988 | 11,279,373 | 6.00 | 22,412,768 | 11.93 |
| 1989 | 11,523,630 | 6.00 | 22,386,804 | 11.68 |
| 1990 | 11,484,060 | 6.00 | 22,589,146 | 11.80 |
| 1991 | 12,155,118 | 6.00 | 23,855,023 | 11.77 |
| 1992 | 12,857,937 | 6.00 | 26,787,862 | 12.50 |
| 1993 | 12,149,351 | 6.00 | 32,690,548 | 16.39 |
| 1994 | 11,943,024 | 6.00 | 32,358,200 | 16.27 |
| 1995 | 12,604,734 | 6.00/7.00 | 33,672,809 | 16.27 |
| 1996 | 13,170,061 | 6.00/7.00 | 34,395,941 | 16.01 |
| 1997 | 15,305,167 | 6.00/7.00 | 22,540,381 | 10.01 |
| 1998 | 18,555,336 | 6.00/7.00/8.00 | 8,494,670 | 3.47 |
| 1999 | 20,649,845 | 8.00 | 7,140,565 | 2.79 |
| 2000 | 22,869,611 | 8.00 | 8,007,508 | 2.90 |
| 2001 | 25,848,785 | 8.00 | 8,735,015 | 2.90 |
| 2002 | 28,275,170 | 8.00 | 9,473,361 | 2.90 |
| 2003 | 32,665,945 | 8.00 | 13,023,157 | 3.94 |
| 2004 | 25,992,388 | 8.00 | 21,142,815 | 6.55 |

## Statistical Charts

Average Monthly Benefit
Service Retirements
1999-2004


## Contributions

1995-2004


## Schedule of Participating Employers

ACE Community Challenge
948 Santa Fe Drive

Northeast Academy
4895 Peoria Street
Denver, CO 80204-3937
Denver, CO 80239-2409

Big Picture High School \#1
Skyland Community High School
5900 East 39th Avenue
Denver, CO 80207-1232
Odyssey Charter
8800 East 28th Avenue
Suite C
Denver, CO 80238-2412

Challenges, Choices, \& Images
Omar D. Blair School
4905 Cathay Street
Denver, CO 80249-8376

Colorado High School Charter
1175 Osage Street \#100
Denver, CO 80204-3443

Denver Arts and Technology Academy
3752 Tennyson Street
Denver, CO 80212-3709

Denver Public Schools Retirement System
1301 Pennsylvania Street
Suite 700
Denver, CO 80203-5015
Highline Academy
7808 Cherry Creek
7808 Cherry Creek Drive South
Suite 304
Denver, CO 80231-3222

KIPP Sunshine Peak Academy
2280 West Holden Place
Denver, CO 80204-3353
1537 Alton Street
Aurora, CO 80010-1712

