# Comprehensive Annual Financial Report 

Fiscal Year Ended June 30, 2010

Oklahoma Teachers Retirement System


## Mission Statement

It is the mission of the Oklahoma Teachers Retirement System to provide outstanding customer service to all of our active and retired Clients.

## Mission Action Plan

- Provide excellent communication and education to our Clients
- Protect and promote the financial interests of our Clients
- Consistently improve performance
- Pursue pro-active solutions and innovation
- Promote an environment of trust and cooperation where Colleagues are encouraged to reach their potential


## Oklahoma Teachers <br> Retirement System



## Comprehensive Annual Financial Report

June 30, 2010

# Oklahoma Teachers Retirement System <br> P.O. Box 53524 <br> Oklahoma City, OK 73152 

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## Section One: Introduction

## Comprehensive Annual Financial Report

Fiscal Year Ended June 30, 201

Oklahoma Teachers Retirement System


## Mission Action Plan

## Point One: Provide excellent

 communication and education to our Clients

The Board of Trustees
Oklahoma Teachers Retirement System
2500 N. Lincoln Boulevard
Oklahoma City, OK 73105

Dear Board of Trustees:
We are honored to present the 2010 Comprehensive Annual Financial Report (CAFR) of the Teachers' Retirement System of Oklahoma (the System) for the fiscal year ended June 30, 2010. The information included in this report not only defines our purpose, but represents our commitment to protecting the financial future of our active and retired clients. We accomplish this by monitoring and evaluating our daily operations as well as prudently managing the $\$ 8.4$ billion of net assets in the fund. The Teachers' Retirement System of Oklahoma is a component unit of the state of Oklahoma.

## Profile of System

Established by legislation, the System began operation on July 1, 1943. The System provides retirement allowances and other benefits to public education employees in the common schools, career technology centers, colleges and universities, and other local and state educational agencies of the state of Oklahoma.

The mission of the System is to provide outstanding customer service to all of our active and retired Clients. All services provided by the staff are performed to meet that objective.

## Management Responsibility

Management is responsible for maintaining a system of adequate internal accounting controls designed to provide reasonable assurance that the transactions are executed in accordance with management's general or specific authorization, and are recorded as necessary to maintain accountability for assets and to permit preparation of financial statements in accordance with generally accepted accounting principles. This system includes written policies and procedures. Responsibility for the preparation, accuracy, completeness and fairness of this presentation, including all disclosures, rests firmly with the System's management. To the best of our knowledge and belief, this financial report is complete and reliable in all material aspects.

The System maintains a comprehensive internal control framework designed to assure that assets are safeguarded from theft or misuse, transactions are completed accurately, and financial statements are fair and reliable. The System has its own internal audit program with an Internal

Auditor who reports directly to the Executive Secretary and regularly provides written and oral reports to the Board of Trustees.

The System operates according to an administrative budget approved annually by the Board. Although revenue is not appropriated from the state's General Revenue Fund, the budget is submitted to the Legislature as part of the Governor's recommended budget. The System operates under the same budgetary controls that apply to all state agencies.

The basic financial statements are prepared in accordance with generally accepted accounting principles as promulgated by the Government Accounting Standards Board. An independent auditing firm, Cole and Reed PC, has audited the financial statements included in this report and their opinion letter is presented in the Financial Section of this CAFR. Readers are encouraged to review the Management's Discussion and Analysis (MD\&A) in the Financial Section for an in-depth discussion of the financial statements and the cause and effect of market conditions, legislation and changes in operations affecting the System's financial results.

## Economic Condition and Outlook

For the year ended June 30, 2010, the System's investment portfolio realized a $16.6 \%$ rate of return. This was due to improvement in the United States and global financial markets. The System is incrementally rebalancing its portfolio. This should result in the investments being better positioned to fully participate as the financial markets recovery.

A properly funded pension plan continues to be the Board's most significant challenge. As of June 30, 2010, only $47.9 \% \%$ of the System's actuarial liabilities were covered by the actuarial value of assets. This is a decrease in the $49.8 \%$ funded ratio reported for June 2009. The decrease in the funded ratio is primarily due to significant actuarial value of asset loss during FY-2009 due to the continued recognition of prior years' asset losses on a market basis as well as the change in assumptions effective in the current actuarial valuation.

Passage of Senate Bill 357 during the 2007 Legislative Session was a major event. This law was designed to raise the System's funded ratio by increasing the employer contributions by one-half of one percent over several years, as long as funds are earmarked to cover the cost. During the 2009 Legislative Session, appropriations were made to continue funding the mandate of Senate Bill 357. Effective July 1, 2010, employer contributions from K-12 schools, Career Tech, twoyear colleges and state agencies will increase to $9.5 \%$. For comprehensive and regional fouryear colleges and universities, employer contributions will increase to $8.55 \%$.

The System also received $5 \%$ of the annual proceeds from the Education Lottery. During FY2010, the System received $\$ 3.4$ million.

## Revenue and Funding

The major sources of revenue for the System are member contributions, employer contributions, dedicated revenue from the state of Oklahoma, and investment income.

Active member contributions for fiscal year 2010 were $\$ 290.2$ million, which represents $7 \%$ of covered payroll. This compares to $\$ 288.2$ million for fiscal year ending June 30, 2009. Member
contributions include direct payments by members to reestablish service credit, purchase Oklahoma, out-of-state or military service, and payments required to qualify for the Education Employees Service Incentive Plan (EESIP).

Contributions from local employers, the state of Oklahoma, and federal sources for fiscal year 2010 totaled $\$ 620.7$ million, compared to $\$ 618.7$ million for fiscal year 2009. Contributions from local school districts and federal revenues increased by $\$ 33.1$ million, and the state's contribution decreased by $\$ 29.1$ million.

## Expenses

The System's expenses are attributable to retirement benefit payments including health insurance subsidies, death and survivor benefits, refunds of member contributions and administrative expenses. During FY-2010, the System paid $\$ 36.6$ million more in retirement, survivor and insurance benefits than in the preceding year, $\$ 1.7$ million less in refunds to active clients who terminated accounts, and $\$ 14.9$ million more in distributions from the Systems 403(b) Tax Sheltered Annuity Plan. The increase in retirement and insurance benefits is attributed to a net increase in the number of retired members and the average benefit payments. The increase in refunds, death benefits and annuity distributions is due to an increase in the number of members making withdrawals from both the defined benefit plan and the $403(\mathrm{~b})$ defined contribution plan. Administrative expenses decreased by $\$ 237$ thousand due primarily to a decrease in personnel costs.

## Investments

For FY 2010, the System experienced a $16.6 \%$ positive rate of return. Net investment income, including realized and unrealized gains and losses, was a positive $\$ 953$ million compared to a negative $\$ 1,667$ billion for FY 2009. Net assets totaled $\$ 8.567$ billion at market value on June 30,2010 compared to $\$ 7.452$ billion on June 30, 2009. These numbers include the amounts held in trust for members who participate in the Systems 403(b) Tax Sheltered Annuity Plan.

On June 30, 2010, the System's investment portfolio mix at market value was $40 \%$ fixed income and $60 \%$ equities. As fiduciaries for the retirement funds, the Board of Trustees is responsible for investment of the funds under the prudent person standard. This standard allows the System to allocate trust funds across a broad group of asset classes. The Board of Trustees has elected to limit investments to stocks and bonds, Treasury Bills and Notes, Commercial Paper, foreign currency exchange contracts, private equity, and bank deposits collateralized by U.S. Government securities.

A summary of the System's investment activities during fiscal year 2010 and historic performance results is presented in the Investment Section.

## Awards and Acknowledgements

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Teachers' Retirement System of Oklahoma for its comprehensive annual financial report for the fiscal year ended June 30, 2009. This is the seventeenth consecutive year the System has achieved this prestigious award. In order to be awarded a Certificate of Achievement, the System must
publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements. A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report 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.

This report reflects the combined efforts of the System's staff under the leadership of the Board of Trustees. It is intended to provide complete and reliable information as a basis for making management decisions, of determining compliance with legal provisions, and as a means for determining responsible stewardship for the assets contributed by the members and their employers.

This report is being mailed to the Governor, members of the Oklahoma Legislature, and the Oklahoma State Pension Commission. This report will also be available on our website at www.ok.gov/TRS.

I would like to take this opportunity to express my gratitude to you, the staff, the advisors, and other people who have worked so diligently to assure the continued successful operation of the Teachers' Retirement System of Oklahoma.

Respectfully submitted,

James. R. Wilbanks, Ph.D.
Executive Director
December 27, 2010

# TEACHERS RETIREMENT SYSTEM OF OKLAHOMA 

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BOARD OF TRUSTEES

Dr. Michael Simpson, Chairman, Ponca City

Dr. Gary Trennepohl, Vice Chairman, Tulsa
Mr. Bruce DeMuth, Secretary, Stillwater

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Mr. Richard Neptune, Trustee, Lawton

Mr. Galeard W. Roper, Trustee, Elk City
Mr. James Smith, Trustee, Shawnee

Ms. Billie Stephenson, Trustee, Marlow

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## OKLAHOMA TEACHERS RETIREMENT SYSTEM Organization



## Oklahoma Teachers

Retirement System
Plan Summary 2009-2010

## BEGINNINGS

The Oklahoma Teachers Retirement System (the System) was established July 1, 1943, to provide retirement allowances and other specified benefits for qualified employees of state-supported educational institutions.

## ADMINISTRATION

A 13-member Board of Trustees oversees the administration of the System and acts as fiduciary for investing its funds.

## CONTRIBUTIONS

As a member of the System, your contribution rate is 7\% of your total compensation (salary and your fringe benefits).
Statutes also require employers to contribute a percentage of applicable employee earnings. Through December 31, 2009, the employer contribution rate for K-12 school districts, career-techs, and junior colleges is $9 \%$, and from January 1, 2010 through December 31, 2010, the employer contribution rate for these schools is $9.5 \%$. The employer contribution rate for comprehensive universities (University of Oklahoma and Oklahoma State University and their entities) and the state's fouryear regional universities is $8.05 \%$ from January 1, 2009 through December 31, 2009. From January 1, 2010 through December 31, 2010, the employer contribution rate for these schools is $8.55 \%$.

## MEMBERSHIP

Oklahoma statutes require classified personnel to be members the System. The definition of classified personnel in 70 O.S., § 17-101 includes teachers and other certified employees of common schools, faculty and administrators in public colleges and universities, and administrative personnel of state educational boards and agencies who are employed at least half-time. Membership is optional for all other regular employees of public educational institutions who work at least 20 hours per week.

Employers of a charter school may join the System if the Oklahoma Teachers Retirement System Board of Trustees approves the school's application for membership.
New employees at the University of Oklahoma, OU Health Sciences Center, and Oklahoma State University have the option to participate in an alternate retirement plan provided by the universities. Employees choosing the alternate retirement plan are not eligible to participate in the System as long as they remain employees of the universities.

## SERVICE CREDIT

You must work at least six full school months to qualify for one year of membership. A school month is 20 school days of at least six hours. You will receive partial credit for employment of fewer than six months or between four and six hours per school day. You also may purchase credit for out-of-state service, military service, service with certain Oklahoma governmental entities, and employment in Oklahoma schools before your date of membership.

Retiring members may count up to 120 days of unused accumulated sick leave toward an additional year of service credit.

## RETIREMENT ANNUITY

You are fully vested after five years of contributory Oklahoma membership service. A vested member can receive benefits after satisfying eligibility requirements.

Members joining the System before July 1, 1992, may retire with unreduced benefits when age and years of creditable service total 80 (Rule of 80). Members joining the System after June 30, 1992, may retire with unreduced benefits when age and years of creditable service total 90 (Rule of 90 ).
You may retire at age 62 with unreduced benefits after completing five years of Oklahoma service.
You may retire with reduced benefits as early as age 55, if you have at least five years of creditable Oklahoma service.
The Oklahoma Teachers Retirement System is a governmental defined benefit plan under Section 401(a) of the Internal Revenue Code. The retirement benefits paid to our members are not determined by the market value of their retirement account, but rather by a formula. The formula includes years of service and highest average salary multiplied by a $2 \%$ computation factor.
The final average salary is not limited to the highest average salary defined under the Rule of 80 (highest three salaries) or Rule of 90 (highest five consecutive salaries), but may include any years previously capped.
The Education Employees Service Incentive Plan (EESIP) provides the opportunity for capped years to be diminished by two years for every one year worked beyond the full retirement eligibility date. If salaries earned prior to July 1,1995 are greater than $\$ 40,000$, there will be a cost to participate in EESIP. Clients retiring from a four year university, college or other related entity are not eligible to participate in this plan.
If you work for a comprehensive university (OU/OSU) or other associated entity, your retirement benefit calculation may involve a multi-step process. First, we will determine your capped average salary prior to July 1, 1995. Next we will determine your capped average salary between July 1, 1995 and June 30, 2007. Finally, years of service that did not meet the caps as well as service credit earned after July 1, 2007, will be incorporated into the retirement benefit formula using the highest average of actual total compensation, not to exceed the IRS compensation limits. There may be as few as one average salary or as many as four weighted averages to determine the final average salary used in the final benefit calculation.
Each of the Systems's five retirement plans provides a lifetime benefit to the member. After the member's death, the designated beneficiary(ies) receive either a lump-sum payment or continued payments to one beneficiary, depending upon the elected plan's provisions.

## DISABILITY BENEFITS

You may qualify for disability retirement benefits if a medical condition keeps you from performing your regular duties as a public school employee. You may be considered for an Oklahoma Teachers Retirement System disability retirement benefit if you have at least 10 years of contributory service, you submit a disability retirement application detailing your medical condition (which must have existed while you were employed by the public schools of Oklahoma), and your application is approved by the System's Medical Review Board and the Board of Trustees.

If you are awarded Social Security Disability benefits, you qualify for disability benefits with the System if you incur the disability while employed by the public schools and provide the System with proof of the Social Security award.

[^1]
## HEALTH INSURANCE BENEFIT

If you have at least 10 years of creditable service and retire or terminate your employment, you may elect to continue coverage in the insurance program your employer provides to active employees.
If you are not enrolled in the state plan, coverage is subject to the provisions of the plan in which you are enrolled.
Dependent and dental coverage is available if you are enrolled in the State and Education Employees Group Health and Dental Insurance Plan.
Once you begin receiving monthly retirement checks, Oklahoma Teachers Retirement System will pay for the first $\$ 100$ to $\$ 105$ of monthly premiums for you, but not for your dependents. The actual amount paid by the System is determined by your total service and average salary at retirement.
If you have fewer than 10 years of employment, you have certain rights under federal law to continue healti insurance coverage after your employment ends. You should request information about continued coverage from your school's payroll office or the Oklahoma State and Education Employees Group Insurance Board before termination.

## SURVIVOR BENEFITS

Your designated beneficiary or estate is entitled to survivor benefits if you are a member of the System when you die.
If you are an active in-service member when you die, your beneficiary(ies) will receive an $\$ 18,000$ death benefit, plus the contributions in your account and interest on those contributions. "Active in-service" is defined in the Oklahoma Teachers Retirement System rules, but generally means a member currently employed by an Oklahoma public education institution. When you die, if you are an active in-service member with 10 or more years of service, have reached age 55 or met the Rule of 80 or Rule of 90 and you have one designated primary beneficiary, he or she may choose a monthly benefit instead of the lump-sum payment.
If you are an inactive member when you die, your beneficiaries will receive the amount of the contributions in your account, plus interest on those contributions, but will not qualify for the $\$ 18,000$ death benefit or the monthly retirement benefit payment payable to the surviving beneficiary of active in-service members.

If you die after you retire, your beneficiary or estate will receive a $\$ 5,000$ death benefit, plus the survivor benefits provided by your chosen retirement plan. Certain retirement plan options provide your surviving beneficiary(ies) with a continuing monthly retirement benefit.

## WITHDRAWING YOUR CONTRIBUTIONS

If you leave the job that qualified you for membership, you may request a refund of your contributions any time after your last day on that job. You will be eligible to receive the refund four months after you leave your job. The refund includes all contributions made by you or on your behalf by your employer, plus any applicable portion of interest earnings. When you accept a refund, you forfeit all service credit.
If you return to qualifying employment, you may redeposit your withdrawn account after you contribute to the System for 12 months.

Redepositing your withdrawn contributions reinstates your initial membership date. If you do not redeposit your withdrawn contributions, your official membership date will be the date you rejoined the System.
If you decide to redeposit, you must redeposit the entire amount you withdrew and pay $10 \%$ simple interest on that amount for each year your account was withdrawn. You may pay this amount in one lump sum or through installment payments for up to 60 months.

Only an optional member (support personnel) can terminate membership in the System without terminating employment. If you are an optional member and withdraw your account without leaving your job, the IRS requires that pre-tax contributions remain on deposit and cannot be refunded until you leave your job.
If you continue working for your employer after terminating your membership, you can rejoin the System only under special
provisions of an Internal Revenue Service private letter ruling requiring a period of non-membership and loss of the right to redeposit withdrawn service or purchase prior service credits. In this case, you would become a new member as of the date you rejoin.
You also may leave your contributions in your account. If you are vested (have at least five years if Oklahoma service), your account will continue earning interest until you withdraw it or begin drawing your retirement benefit. If you are not vested, your account will continue earning interest for five years, unless you withdraw it before then.

## THE 403(b) TAX SHELTERED ANNUYTY PLAN

The System sponsors a tax sheltered annuity program qualified under $\S 403$ (b) of the Internal Revenue Code. You may deposit funds into this plan if your local Board of Education or other governing board adopts a resolution making the plan available to its employees.
The tax sheltered annuity program has been managed internally since its inception in 1964. In July 2009, the Board of Trustees hired ING Life Insurance and Annuity Company to be the service provider for the 403 (b) Plan.
Under the new plan, participants may access their accounts 24 hours a day by calling a toll-free number or via the internet. Customer service representatives are available each weekday from 7:00 am to $8: 00 \mathrm{pm}$. The investments are flexible and diversified and there are fifteen options to choose from.
The most exciting feature of the new plan is the comprehensive educational strategy developed by ING. A dedicated representative from ING will be available to meet with you at least annually to discuss your retirement goals and needs.

## RIGHTS AND RESPONSIBLLITIES

Oklahoma Teachers Retirement System publications provide answers to general questions. You are responsible for resolving any questions about your retirement account. You are entitled to counseling from the staff concerning any questions you have about your retirement account. The System will not be held accountable for information that is contrary to statutes or administrative rules, regardless of who provides that information.
For details of how statutes and administrative rules may affect your retirement account, contact

## OKLAHOMA TEACHERS RETIREMENT SYSTEM Mailing Address <br> PO Box 53524 <br> Oklahoma City, OK 73152-3524

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This Plan Summary provides general information summarizing the basic benefits available to members of the System. If conflict arises between information contained in this summary and state statutes or official Oklahoma Teachers Retirement System rules, the law and/or rule takes precedence. 28,000 copies of this Plan Summary have been printed by the Office of Public Affairs, Central Printing Division, at a cost of $\$ 1,275$. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Department of Libraries.

Revised 10/2009

# Certificate of Achievement for Excellence in Financial Reporting 

Presented to

# Teachers' Retirement System of Oklahoma 

For its Comprehensive Annual<br>Financial Report<br>for the Fiscal Year Ended

June 30, 2009
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.


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## Section Two: Financial

## Comprehensive Annual Financial Report

Fiscal Year Ended June 30, 201

Oklahoma Teachers Retirement System


## Mission Action Plan

Point Two: Protect and promote the financial interests of our Clients
OKLAHOMA TEACHERS


Independent Auditors' Report

Board of Trustees<br>Teachers' Retirement System of Oklahoma

We have audited the accompanying statements of plan net assets of the Teachers' Retirement System of Oklahoma (the "System"), a part of the financial reporting entity of the state of Oklahoma, as of June 30, 2010 and 2009, and the related statements of changes in plan 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 and the standards applicable to financial audits contained in the Government Auditing Standards, issued by the Comptroller General of the United States of America. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. 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.

As discussed in Note L, the System's actuary has determined that the System's unfunded actuarial accrued liability (the "UAAL") is approximately $\$ 10,414,000,000$. The funding of the actuarial accrued liabilities is predicated on a funding schedule mandated by Oklahoma Statutes. Under the present funding schedule, the statutory contribution rates are projected to be insufficient to amortize the UAAL. Negative amortization is occurring and is expected to continue indefinitely, resulting in an infinite funding period.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets of the System at June 30, 2010 and 2009, and the changes in its net assets for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

In accordance with Government Auditing Standards, we have also issued a report dated November 15, 2010, on our consideration of the System's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be considered in assessing the results of our audits.

Management's Discussion and Analysis and the schedules of funding progress and employers' contributions on page 46 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 an opinion on the basic financial statements taken as a whole. The information included in the schedules on pages 47 through 49 are presented for purposes of additional analysis and are not a required part of the basic financial statements. The information included in the schedules on pages 47 through 49 have been subjected to the auditing procedures applied in the audits of the basic financial statements and, in our opinion, are fairly stated in all material respects in relation to the basic financial statements taken as a whole.


Oklahoma City, Oklahoma
November 15, 2010

## Teachers' Retirement System of Oklahoma

## Management's Discussion and Analysis

Management is pleased to present this discussion and analysis of the financial activities of the Oklahoma Teachers Retirement System ("OTRS" or the "System") for the years ended June 30, 2010,2009, and 2008. The System is responsible for administering retirement benefits for a 401(a) defined benefit plan for all educational employees of the state of Oklahoma as well as a voluntary defined contribution plan, 403(b). The System was established on July 1, 1943 for the purpose of providing these retirement benefits and other specific benefits for qualified persons employed by public educational institutions. The main purpose of the System is to provide a primary source of lifetime retirement benefits relative to years of service at the time of retirement. It is the objective of the System to provide these benefits in a prudent, responsible, and cost-effective manner. Plan net assets are used to pay current and future benefits to retired clients.

This discussion and analysis is intended to serve as an introduction to the System's basic financial statements. OTRS's basic financial statements are comprised of three components: 1) statement of plan net assets, 2) statement of changes in plan net assets, and 3) notes to the financial statements. This report also contains required supplementary information in addition to the basic financial statements themselves.

The statement of plan net assets presents information on all of the System's assets and liabilities, with the difference between the two reported as net assets held in trust for pension benefits and annuity benefits of electing members. Over time, increases or decreases in net plan assets may serve as a useful indicator of whether the financial position of the System is improving or deteriorating. Information relating to the System's ability to meet the cost of future benefit payments, is not shown on the statement of plan net assets, but is located in both the notes to the financial statements and the required supplementary information.

The statement of changes in plan net assets presents information showing how the System's net assets changed during the most recent fiscal year. Changes in net assets are recognized using the accrual basis of accounting, in which expenses are recorded when the liability is incurred and revenues are recorded in the accounting period in which they are earned and become measurable.

The notes to the financial statements are critical to the reader's understanding of the financial status of the System. These notes include a description of the System, details on the cash and investments of the System, as well as contribution and benefit information.

The required supplementary information presents a Schedule of Funding Progress that provides historical trend information about the actuarially determined funded status of the System. The Schedule of Employers' Contributions provides historical trend information about the annual required contributions ("ARC") of the System and the contributions made to the System in relation to the ARC. Other supplementary information includes the Schedules of Administrative Expenses, the Schedules of Investment Expenses, and the Schedules of Professionals/Consultants Fees. These schedules provide additional analysis of the information provided in the financial statements.

## Teachers' Retirement System of Oklahoma

## Management's Discussion and Analysis (Continued)

## CONDENSED FINANCIAL INFORMATION

Plan Net Assets as of June 30:
ASSETS
Cash
Receivables
Long and short-term
investments, at fair value
Capital assets, net
INVESTMENTS AND
OTHER ASSETS
Securities lending institutional
daily assets fund

LIABILITIES
Investment settlements
and other liabilities
Payable under securities
lending agreement
NET ASSETS
Net assets held in trust
for pension benefits

| 2010 | 2009 | 2008 | $\begin{gathered} 2010 \\ \text { \% Change } \end{gathered}$ | $\begin{gathered} 2009 \\ \text { \% Change } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| \$ 9,646,573 | \$ 6,340,103 | \$ 2,124,625 | 52.15\% | 198.41\% |
| 172,564,773 | 368,698,302 | 449,933,960 | -53.20\% | -18.06\% |
| 8,519,177,169 | 7,479,921,376 | 9,115,699,511 | 13.89\% | -17.94\% |
| 187,847 | 224,182 | 247,186 | -16.21\% | -9.31\% |
| 8,701,576,362 | 7,855,183,963 | 9,568,005,282 | 10.77\% | -17.90\% |
| 2,247,747,871 | 1,094,475,078 | 1,603,992,581 | 105.37\% | -31.77\% |
| 10,949,324,233 | 8,949,659,041 | 11,171,997,863 | 22.34\% | -19.89\% |
| 134,652,920 | 402,991,252 | 622,146,000 | -66.59\% | -35.23\% |
| 2,247,747,871 | 1,094,475,078 | 1,603,992,581 | 105.37\% | -31.77\% |
| 2,382,400,791 | 1,497,466,330 | 2,226,138,581 | 59.10\% | -32.73\% |
| \$8,566,923,442 | \$7,452,192,711 | \$8,945,859,282 | 14.96\% | -16.70\% |

Changes in Plan Net Assets for the year ended June 30:

ADDITIONS:
Member contributions
Employer contributions
Matching contributions
Dedicated tax revenue
Member tax shelter contributions
Net investment income gain (loss)
Security lending net income
TOTAL ADDITIONS
DEDUCTIONS:
Benefit payments
Refund of member contributions and tax sheltered annuity
Administrative expenses
TOTAL DEDUCTIONS
NET INCREASE (DECREASE)
NET ASSETS, BEGINNING OF YEAR
NET ASSETS, END OF YEAR

| 2010 | 2009 | 2008 |
| :---: | :---: | :---: |
| \$ 290,247,028 | \$ 288,238,426 | \$ 286,738,943 |
| 366,282,238 | 338,974,512 | 308,804,479 |
| 26,448,892 | 22,652,221 | 21,274,957 |
| 227,926,247 | 257,019,830 | 266,761,597 |
| 5,402,646 | 8,678,472 | 8,922,095 |
| 1,186,235,015 | $(1,461,365,729)$ | $(732,959,172)$ |
| 5,032,411 | 9,318,329 | 10,531,955 |
| 2,107,574,477 | $(536,483,939)$ | 170,074,854 |
| 912,912,714 | 876,273,193 | 806,540,725 |
| 74,951,443 | 75,692,946 | 63,925,592 |
| 4,979,589 | 5,216,493 | 4,791,118 |
| 992,843,746 | 957,182,632 | 875,257,435 |
| 1,114,730,731 | $(1,493,666,571)$ | $(705,182,581)$ |
| 7,452,192,711 | 8,945,859,282 | 9,651,041,863 |
| \$8,566,923,442 | \$7,452,192,711 | \$8,945,859,282 |


| $\begin{gathered} 2010 \\ \text { \% Change } \end{gathered}$ | $\begin{gathered} 2009 \\ \text { \% Change } \end{gathered}$ |
| :---: | :---: |
| 0.70\% | 0.52\% |
| 8.06\% | 9.77\% |
| 16.76\% | 6.47\% |
| -11.32\% | -3.65\% |
| -37.75\% | -2.73\% |
| -181.17\% | 99.38\% |
| -45.99\% | -11.52\% |
| -492.85\% | -415.44\% |
| 4.18\% | 8.65\% |
| -0.98\% | 18.41\% |
| -4.54\% | 8.88\% |
| 3.73\% | 9.36\% |
| -174.63\% | 111.81\% |
| -16.70\% | -7.31\% |
| 14.96\% | -16.70\% |

# Teachers' Retirement System of Oklahoma 

## Management's Discussion and Analysis (Continued)

## FINANCIAL HIGHLIGHTS AND ANALYSIS

The increase in nets assets primarily is due to investment gains as a result of significant market gains in FY 2010. The total investment return for FY 2010 was 16.6\%. Domestic and international equity, which compose $60.8 \%$ of the investment portfolio asset allocation, had the greatest increases at $18.4 \%$ and $10.0 \%$, respectively. The decreases of $16.7 \%$ and $7.3 \%$ in 2009 and 2008, respectively, were the result of significant market losses due to weaknesses in the United States and global markets.

|  | 2010 | 2009 | 2008 | 2006 | 2001 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Plan net assets | \$8,566,923,442 | \$7,452,192,711 | \$8,945,859,282 | \$8,175,345,445 | \$6,049,954,298 |
| Yearly \% change | 15.0\% | -16.7\% | -7.3\% | 8.4\% | -3.2\% |

As a result of the market declines in 2009 and 2008, the total investment returns for the three, five, and ten-year periods are below the actuarial assumed rate of investment return for each of the periods. As mentioned above, the losses were due to weaknesses in the United States and global markets. The assumed actuarial rate of return is $8.0 \%$ for the one, three, five and ten-year periods as of June 30, 2010.

| Total returns | 1 year | 3 year | 5 year | 10 year |
| :---: | :---: | :---: | :---: | :---: |
| 2010 | 16.6\% | -3.1\% | 3.4\% | 4.4\% |
| 2009 | -16.0\% | -2.6\% | 2.3\% | 3.9\% |
| 2008 | -7.1\% | 6.5\% | 10.0\% | 6.9\% |
| 2006 | 9.8\% | 13.5\% | 7.9\% | 10.1\% |
| 2001 | 2.2\% | 6.8\% | 12.3\% |  |

Benefit payments increased $4.2 \%$ in 2010 compared to $8.6 \%$ in 2009 and $10.9 \%$ in 2008. The increase in 2010 is a result of a $4.2 \%$ increase in the number of benefit recipients and a $1.9 \%$ increase in the average monthly benefit. The increase in 2009 and 2008 are a result of $3.2 \%$ and $1.3 \%$ increases in the average monthly benefit, respectively, and $3.4 \%$ and $4.0 \%$ increases in the number of benefit recipients, respectively. Benefit payments to retired members exceed contributions from contributing members and employers by $\$ 71.6$ million or a ratio of 1.08 to 1 . A ratio of less than one is desirable because it signifies that the System is receiving more contributions than it pays out in benefits. The ratios for FY 2010, 2009, and 2008 are cash neutral and are an improvement from FY 2001. The following table reflects ongoing employer and member contributions. Employer contributions continue to have the greatest increases since July 2007 due to SB 357 increasing the contribution rate from $7.05 \%$ to $9.5 \%$ on January 1, 2010 for most reporting employers.

## Teachers' Retirement System of Oklahoma

## Management's Discussion and Analysis (Continued)

## FINANCIAL HIGHLIGHTS AND ANALYSIS (Continued)

|  | 2010 | 2009 | 2008 | 2006 | 2001 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Member contributions | \$ 295,649,674 | \$ 296,916,898 | \$ 295,661,038 | \$ 248,961,068 | \$216,752,852 |
| Employer contributions | 366,282,238 | 338,974,512 | 308,804,479 | 241,174,959 | 172,749,389 |
| Matching contributions | 26,448,892 | 22,652,221 | 21,274,957 | 16,094,158 | 14,406,265 |
| Dedicated tax revenue | 227,926,247 | 257,019,830 | 266,761,597 | 202,200,424 | 140,925,355 |
| Total contributions | 916,307,051 | 915,563,461 | 892,502,071 | 708,430,609 | 544,833,861 |
| Benefit payments | 912,912,714 | 876,273,193 | 806,540,725 | 727,379,279 | 537,308,002 |
| Refund of contributions | 74,951,443 | 75,692,946 | 63,925,592 | 52,902,064 | 65,763,326 |
| Total payments | 987,864,157 | 951,966,139 | 870,466,317 | 780,281,343 | 603,071,328 |
| Ratio benefit payments/ contributions | 1.08 | 1.04 | 0.98 | 1.10 | 1.11 |

The number of benefit recipients increased $7.8 \%$ over the past three years from 45,238 to 48,756 . Since 2001, the number of benefit recipients increased by 13,568 or $38.6 \%$. The main reason the number of benefit recipients has increased from FY 2008 to FY 2010 is due to the economy in the state of Oklahoma. Schools have offered early retirement incentives to educational employees as a means of balancing their school budgets.

|  | 2010 | 2009 | 2008 | 2006 | 2001 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Benefit recipients | 48,756 | 46,796 | 45,238 | 41,782 | 35,188 |
| Yearly \% change | 4.2\% | 3.4\% | 4.0\% | 2.2\% | 4.6\% |
| Net increase | 1,960 | 1,558 | 1,732 | 903 | 1,563 |

The following table reflects the average monthly benefit for service retirements. Over the tenyear period form 2001, the average benefit increased by $\$ 280$, or $22.7 \%$. The retirement benefit increased $69.9 \%$ or $\$ 375.6$ million over this ten-year period. The increase in the average monthly benefit in FY 2009 is due to a cost-of-living allowance ("COLA") being granted by the state legislature in August 2008 to retirees. In FY 2010 and 2008 a COLA was not granted, however the increases are simply due to an increase in the number of retirees receiving monthly benefits.

Average benefit
Yearly \% change

| 2010 |  | 2009 |  | 2008 |  | 2006 |  | 2001 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$ | 1,511 | \$ | 1,483 | \$ | 1,437 | \$ | 1,376 | \$ | 1,231 |
|  | 1.9\% |  | 3.2\% |  | 1.3\% |  | 0.2\% |  | 2.7\% |

## Teachers' Retirement System of Oklahoma

## Management's Discussion and Analysis (Continued)

The ratio of active members to retired members of the System is 1.84 to 1 in 2010 compared to 2.40 to 1 in 2001. Over the past ten years, the number of members contributing into the System increased $6.5 \%$. During the same period, the number of retired members increased by $38.7 \%$.

|  | 2010 |  | 2009 |  | 2008 | 2006 | 2001 |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 89,896 |  | 89,388 |  | 88,678 |  | 87,194 | 84,387 |
| Members contributing | $0.6 \%$ | $0.8 \%$ |  | $0.6 \%$ | $3.5 \%$ | $1.6 \%$ |  |  |
| Yearly \% change | 48,756 | 46,796 | 45,238 | 41,782 | 35,188 |  |  |  |
| Benefit recipients | $4.2 \%$ | $3.4 \%$ | $4.0 \%$ | $2.2 \%$ | $3.1 \%$ |  |  |  |
| Yearly \% change | 1.84 | 1.91 | 1.96 | 2.09 | 2.40 |  |  |  |

The measure of the progress in accumulating sufficient assets to meet the long-term benefit obligations is the funded status or the funded ratio of the System. 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 in the System, through the amounts and timing of contributions from the employers and the contributing clients. The excess of the actuarial accrued liability over the actuarial value of assets is the unfunded actuarial accrued liability ("UAAL"). The actuarial value of assets differs from the year-end fair value of the System's plan net assets by smoothing the effects of market fluctuations. In the calculation of the actuarial value of assets, $20 \%$ of the difference between the actual and assumed investment returns is included in the actuarial value of assets. During extended periods of market declines, the market value of the System's plan net assets usually will be less than the actuarial value of assets.

The 2010 actuarial valuation reflects an increase in the UAAL from $\$ 9,512$ million to $\$ 10,414$ million, which resulted in the funded ratio decreasing from $49.8 \%$ in FY 2009 to $47.9 \%$ in FY 2010. Based upon the current contribution schedule, the statutory contribution amounts are insufficient to amortize the UAAL. As of June 30, 2010 the funding period remains infinite, as reported for June 30, 2009. The increase in the UAAL and resulting continuation of an infinite funding period is principally due to the recognition of recent prior market losses and the change in assumptions effective in this actuarial valuation. The FY 2010, 2009 and 2008 changes reflect market losses or recognition of market losses and the changes to actuarial assumption.

## REQUESTS FOR INFORMATION

This financial report is designed to provide a general overview of the System's finances for all those with an interest in the System. Questions concerning any of the information provided in this report or requests for additional information should be addressed to the Executive Director of the Teachers' Retirement System of Oklahoma, P.O. Box 53524, Oklahoma City, Oklahoma 73152 or (405) 521-2387.

## STATEMENTS OF PLAN NET ASSETS

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

As of June 30, 2010 (with Comparative Totals as of June 30, 2009)

|  | Defined <br> Benefit <br> Plan |  | Defined Contribution Plan |  | Comparative Totals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} \text { June } 30 \\ 2010 \end{gathered}$ |  | June 30 2009 |
| ASSETS |  |  |  |  |  |  |  |  |
| Cash | \$ | 9,646,573 |  |  | \$ | - | \$ | 9,646,573 | \$ | 6,340,103 |
| Short-term investments |  | 250,812,377 |  | - |  | 250,812,377 |  | 347,441,369 |
| Accrued interest and |  |  |  |  |  |  |  |  |
| dividends receivable |  | 45,625,225 |  | - |  | 45,625,225 |  | 42,908,046 |
| Member contributions receivable |  | 22,482,144 |  | - |  | 22,482,144 |  | 26,974,811 |
| Employer contributions receivable |  | 34,553,310 |  | - |  | 34,553,310 |  | 32,180,892 |
| Receivable from the State of Oklahoma |  | 23,542,532 |  | - |  | 23,542,532 |  | 23,186,327 |
| Due from brokers for securities sold |  | 46,361,562 |  | - |  | 46,361,562 |  | 243,448,226 |
| Security lending institutional daily assets fund |  | 2,247,747,871 |  | - |  | 2,247,747,871 |  | 1,094,475,078 |
| Long-term investments: |  |  |  |  |  |  |  |  |
| Mutual funds |  | - |  | 214,957,100 |  | 214,957,100 |  | - |
| U.S. government securities |  | 1,156,414,166 |  | - |  | 1,156,414,166 |  | 1,384,107,246 |
| U.S. corporate bonds |  | 1,851,427,843 |  | - |  | 1,851,427,843 |  | 1,387,037,855 |
| International corporate bonds and government securities |  | 60,291,600 |  | - |  | 60,291,600 |  | 259,592,431 |
| Equity securities |  | 4,985,274,083 |  | - |  | 4,985,274,083 |  | 4,101,742,475 |
| Total long-term investments |  | 8,053,407,692 |  | 214,957,100 |  | 8,268,364,792 |  | 7,132,480,007 |
| Capital assets, net |  | 187,847 |  | - |  | 187,847 |  | 224,182 |
| TOTAL ASSETS | \$ | 10,734,367,133 | \$ | 214,957,100 | \$ | 10,949,324,233 | \$ | 8,949,659,041 |
| LIABILITIES |  |  |  |  |  |  |  |  |
| Benefits in process of payment | \$ | 15,999,565 | \$ | - | \$ | 15,999,565 | \$ | 71,953,759 |
| Due to brokers for securities purchased |  | 110,597,489 |  | - |  | 110,597,489 |  | 322,585,741 |
| Payable under securities lending agreement |  | 2,247,747,871 |  | - |  | 2,247,747,871 |  | 1,094,475,078 |
| Other liabilities |  | 8,055,866 |  | - |  | 8,055,866 |  | 8,451,752 |
| TOTAL LIABILITIES | \$ | 2,382,400,791 | \$ | - | \$ | 2,382,400,791 | \$ | 1,497,466,330 |

## NET ASSETS

Net assets held in trust for pension benefits and annuity benefits of electing members
$\$ 8,351,966,342 \quad \$ \quad 214,957,100 \quad \$ \quad 8,566,923,442 \quad \$ \quad 7,452,192,711$

See accompanying notes to financial statements.

## STATEMENTS OF CHANGES IN PLAN NET ASSETS

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

For the Year ended June 30, 2010
(with Comparative Totals for the year ended June 30, 2009)

|  | Defined <br> Benefit <br> Plan |  | Defined Contribution Plan |  | Comparative Totals |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 2010 |  | 2009 |
| Additions: |  |  |  |  |  |  |  |  |
| Members | \$ | 290,247,028 |  |  | \$ | - | \$ | 290,247,028 | \$ | 288,238,426 |
| Members tax shelter |  | - |  | 5,402,646 |  | 5,402,646 |  | 8,678,472 |
| Employer statutory requirement from local school districts |  | 366,282,238 |  | - |  | 366,282,238 |  | 338,974,512 |
| Matching funds |  | 26,448,892 |  | - |  | 26,448,892 |  | 22,652,221 |
| Dedicated tax |  | 227,926,247 |  | - |  | 227,926,247 |  | 257,019,830 |
| Total contributions |  | 910,904,405 |  | 5,402,646 |  | 916,307,051 |  | 915,563,461 |
| Investment income (loss): |  |  |  |  |  |  |  |  |
| Interest |  | 162,317,655 |  | - |  | 162,317,655 |  | 144,761,285 |
| Dividends |  | 101,257,219 |  | 123,761 |  | 101,380,980 |  | 87,798,878 |
| Net appreciation (depreciation) in fair value of investments |  | 924,683,117 |  | 28,664,347 |  | 953,347,464 |  | $(1,666,823,400)$ |
| Investment expenses |  | $(30,811,084)$ |  | - |  | $(30,811,084)$ |  | $(27,102,492)$ |
| Gain (loss) from investing activities |  | 1,157,446,907 |  | 28,788,108 |  | 1,186,235,015 |  | (1,461,365,729) |
| Income from securities lending activities: |  |  |  |  |  |  |  |  |
| Securities lending income |  | 6,119,998 |  | - |  | 6,119,998 |  | 23,745,099 |
| Securities lending expenses: |  |  |  |  |  |  |  |  |
| Borrower rebates |  | - |  | - |  | - |  | $(12,799,647)$ |
| Management fees |  | $(1,087,587)$ |  | - |  | $(1,087,587)$ |  | $(1,627,123)$ |
| Income from securities lending activities |  | 5,032,411 |  | - |  | 5,032,411 |  | 9,318,329 |
| Net investment gain (loss) |  | 1,162,479,318 |  | 28,788,108 |  | 1,191,267,426 |  | $(1,452,047,400)$ |
| Total additions |  | 2,073,383,723 |  | 34,190,754 |  | 2,107,574,477 |  | $(536,483,939)$ |
| Deductions: |  |  |  |  |  |  |  |  |
| Retirement, death, survivor, and health benefits |  | 912,912,714 |  | - |  | 912,912,714 |  | 876,273,193 |
| Refund of member contributions and annuity payments |  | 30,409,340 |  | 44,542,103 |  | 74,951,443 |  | 75,692,946 |
| Administrative expenses |  | 4,979,589 |  | - |  | 4,979,589 |  | 5,216,493 |
| Total deductions |  | 948,301,643 |  | 44,542,103 |  | 992,843,746 |  | 957,182,632 |
| NET INCREASE (DECREASE) |  | 1,125,082,080 |  | $(10,351,349)$ |  | 1,114,730,731 |  | (1,493,666,571) |
| NET ASSETS, BEGINNING OF YEAR |  | 7,226,884,262 |  | 225,308,449 |  | 7,452,192,711 |  | 8,945,859,282 |
| NET ASSETS, END OF YEAR | \$ | 8,351,966,342 | \$ | 214,957,100 | \$ | 8,566,923,442 | \$ | 7,452,192,711 |

See accompanying notes to financial statements.

## NOTES TO FINANCIAL STATEMENTS

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE A--DESCRIPTION OF THE SYSTEM

The following brief description of the Teachers' Retirement System of Oklahoma (the "System") is provided for general information purposes only. Participants should refer to Title 70 of the Oklahoma Statutes, 1991, sections 17-101 through 121, as amended.

The System was established as of July 1, 1943, for the purpose of providing retirement allowances and other specified benefits for qualified persons employed by state-supported educational institutions. The System is a part of the state of Oklahoma financial reporting entity, which is combined with other similar funds to comprise the fiduciary-pension trust funds of the state of Oklahoma (the "State"). The supervisory authority for the management and operation of the System is a 13-member board of trustees, which acts as a fiduciary for investment of the funds and the application of plan interpretations. The System administers a cost-sharing multipleemployer pension plan which is a defined benefit pension plan ("DB Plan") as well as a taxdeferred defined contribution plan ("DC Plan").

## DB Plan

Oklahoma teachers and other certified employees of common schools, faculty and administrators in public colleges and universities, and administrative personnel of state educational boards and agencies who are employed at least half-time, must join the System's DB Plan. Membership is optional for all other regular employees of public educational institutions who work at least 20 hours per week. The DB Plan's membership consisted of the following as of June 30:

|  | 2010 |  | 2009 |  |
| :---: | :---: | :---: | :---: | :---: |
| Retirees and beneficiaries currently receiving benefits | \$ | 48,756 | \$ | 46,796 |
| Terminated vested clients |  | 7,439 |  | 7,379 |
| Active clients |  | 89,896 |  | 89,388 |
|  | \$ | 146,091 | \$ | 143,563 |

There are 627 contributing employers in the System. In addition, there were 7,206 and 7,542 of non-vested inactive members at June 30, 2010 and 2009, respectively, which are entitled to a refund of their accumulated contributions.

## DC Plan

Members are also offered a tax-deferred defined contribution plan qualified under the Internal Revenue Code ("IRC") Section 403(b). The DC Plan is also referred to by the System as the TaxSheltered Annuity Plan. Membership in the DC Plan is voluntary and investments primarily consist of mutual funds and are participant directed. ING is responsible for administrative services, including custody and record keeping services.

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE A--DESCRIPTION OF THE SYSTEM--Continued

## DC Plan--Continued

The DC Plan had approximately 4,669 and 5,076 participants as of June 30, 2010 and 2009, respectively. Contributions are voluntary and require a minimum of $\$ 200$ per year. The maximum deferral amount is the lesser of $100 \%$ of the participant's compensation or the maximum amount allowed by the IRC, currently $\$ 16,500$.

## NOTE B--SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting: The System has prepared its financial statements in accordance with accounting principles generally accepted in the United States of America and using the economic resources measurement focus. The financial statements are prepared using the accrual basis of accounting, under which expenses are recorded when the liability is incurred, revenues are recorded in the accounting period they are earned and become measurable, and investment purchases and sales are recorded as of their trade dates. Member and employer contributions are established by Oklahoma Statutes as a percentage of salaries and are recognized when due, pursuant to formal commitments, as well as statutory or contractual requirements. Benefits and refunds are recognized when due and payable in accordance with the terms of the Oklahoma Statutes. Administrative expenses are funded through investment earnings.

Budgetary Control: The System prepares and submits an annual budget of operating expenses on the cash basis for monitoring and reporting to the Oklahoma Office of State Finance. The System's budget process follows the budget cycle for State operations as outlined by the Oklahoma Office of State Finance.

The Executive Director may approve changes within the budget, but a change to the total budget must be handled according to the provision of Title 62 O.S. Sec. 41.12 of the Oklahoma Statutes.

Investments: The System is authorized to invest in eligible investments as approved by the board of trustees as set forth in the System's investment policy.

System investments are reported at fair value. The short-term investment fund is comprised of an investment in units of commingled trust funds of the System's custodial agent, which is reported at cost, which approximates fair value. Debt and equity securities are reported at fair value, as determined by the System's custodial agent, using pricing services or prices quoted by independent brokers based on the latest reported sales prices at current exchange rates for securities traded on national or international exchanges. The Security Lending Institutional Daily Assets Fund represents investment in JP Morgan's Institutional Daily Assets Fund and is carried at amortized cost, which approximates fair value.

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE B--SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES--Continued

Investments--Continued: Net investment income includes net appreciation (depreciation) in the fair value of investments, interest income, dividend income, investment income from foreign currency translation gains and losses, securities lending income and expenses, and investment expenses, which includes investment management and custodial fees and all other significant investment related costs.

International investment managers use forward foreign exchange contracts to enhance returns or to control volatility. Currency risks arise due to foreign exchange rate fluctuations. Forward foreign exchange contracts are negotiated between two counter-parties. The System could incur a loss if its counter-parties failed to perform pursuant to the terms of their contractual obligations. At June 30, 2010, the System had forward currency contracts with fair values of $\$ 113.8$ million in receivables and had forward currency contracts with fair values of $\$ 112.0$ million in payables. The gains and losses on these contracts are included in the income in the period in which the exchange rates change. See Note C for additional information regarding investment derivatives as of June 30, 2010.

The System's investment policy provided for investment diversification of stocks, bonds, fixed income securities and other investment securities along with investment in commingled or mutual funds. Investment securities and investment securities underlying commingled or mutual fund investments are exposed to various risks, such as interest rate, market, and credit risks. Due to the risks associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities may occur in the near term and those changes could materially affect the amounts reported in the statements of plan net assets.

Capital Assets: Capital assets are stated at cost when acquired, net of accumulated depreciation. Depreciation is calculated on a straight-line basis over the estimated useful lives of the assets, which range from five to ten years.

Risks and Uncertainties: Contributions to the System and the actuarial information included in the required supplementary information are reported based on certain assumptions pertaining to interest rates, inflation rates, employee compensation, and demographics. Due to the changing nature of these assumptions, it is at least reasonably possible that changes in these assumptions may occur in the near term and, due to the uncertainties inherent in setting assumptions, that the effect of such changes could be material to the financial statements.

Income Taxes: The System is exempt from federal and state income taxes and has received a favorable determination from the Internal Revenue Service (the "IRS") under Internal Revenue Code (the "IRC") Section 401(a). The System's 403(b) Plan is also tax exempt and has received a private letter ruling from the IRS.

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE B--SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES--Continued

Compensated Absences: It is the State's policy to permit employees to accumulate earned but unused vacation and sick leave. Employees earn annual vacation leave based upon their start date and years of service. All accrued vacation leave is payable upon termination, resignation, retirement, or death. Sick leave does not vest to the employee and therefore is not recorded as a liability. Amounts due to the employees for compensated absences were approximately $\$ 275,000$ and $\$ 288,000$ at June 30, 2010 and 2009, respectively.

Plan Termination: In the event the System terminates, the board of trustees will distribute the net assets of the System to provide the following benefits in the order indicated:

Accumulated contributions will be allocated to each respective member, former member, retired member, joint annuitant, or beneficiary then receiving payments.

The balance of such assets, if any, will be allocated to each member then having an interest in the System based upon the excess of their retirement income under the System less the retirement income, which is equal to the actuarial equivalent of the amount allocated to them in accordance with the preceding paragraph in the following order:

- Those retired members, joint annuitants, or beneficiaries receiving payments,
- Those members eligible to retire,
- Those members eligible for early retirement,
- Former members electing to receive a vested benefit, and
- All other members.

Use of Estimates: The preparation of the System's financial statements in conformity with accounting principles generally accepted in the United States of America requires the System's management to make significant estimates and assumptions that affect the reported amounts of net assets held in trust for pension benefits at the date of the financial statements and the actuarial information included in the required supplementary information as of the benefit information date, the changes in System net assets during the reporting period and, when applicable, disclosures of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE B--SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES--Continued

Changes in Accounting Principles: The System adopted Governmental Accounting Standards Board ("GASB") Statement No. 51 Accounting and Financial Reporting For Intangible Assets ("GASB 51") during 2010. GASB 51 establishes accounting and financial reporting requirements for intangible assets. The adoption of GASB 51 did not have a significant impact on the System's financial statements.

The System adopted GASB Statement No. 53 Accounting and Financial Reporting for Derivative Instruments ("GASB 53") which provides guidance to governments to improve the reporting of derivative instruments in their financial statements. The adoption of GASB 53 had an impact on the presentation of the notes to the financial statements but no impact on net assets.

## NOTE C--CASH AND INVESTMENTS

Custodial Credit Risk: Custodial credit risk is the risk that in the event of the failure of a counterparty, the System will not be able to recover the value of its bank deposits or investments. Bank deposits are exposed to custodial credit risk if they are uninsured and uncollateralized. In relation to its bank deposits, the System is not considered to be exposed to custodial credit risk. Although the System does not have a formal bank deposit policy for custodial credit risk, the State Treasurer holds all of the System's bank deposits. As required by Oklahoma Statutes, all bank deposits held by the State Treasurer are insured by Federal Deposit Insurance Corporation, collateralized by securities held by the cognizant Federal Reserve Bank, or invested in U.S. government obligations.

At June 30, 2010 and 2009, the carrying amount of the System's bank deposits was approximately $\$ 9,647,000$ and $\$ 6,340,000$, respectively. The bank balance of the System's bank deposits at June 30, 2010 and 2009 was approximately $\$ 64,101,000$ and $(\$ 269,000)$, respectively.

Investment securities are exposed to custodial credit risk if they are uninsured, are not registered in the name of the System, and are held by a counterparty or the counterparty's trust department but not in the name of the System. While the System's investment policy does not specifically address custodial credit risk it does limit the amount of cash equivalents and shortterm investments to no more than 5\% of each manager's portfolio. At June 30, 2010 and 2009, the System had uninsured and uncollateralized cash and cash equivalents of approximately $\$ 250,812,000$ and $\$ 347,441,000$, respectively, with its custodial agent. The System's custodial agent for the years ended June 30, 2010 and 2009 was JP Morgan.

NOTES TO FINANCIAL STATEMENTS--Continued

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE C--CASH AND INVESTMENTS

Credit Risk: Fixed-income securities are subject to credit risk. Credit quality rating is one method of assessing the ability of the issuer to meet its obligation. The System's investment policy requires that at the time of purchase all corporate bonds or debentures be at the highest rating of the four rating services recognized by the Comptroller of the Currency of the United States of America.


NOTES TO FINANCIAL STATEMENTS--Continued

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

NOTE C--CASH AND INVESTMENTS--Continued
Credit Risk--Continued:

| International Government Securities | AAA | \$ | 23,084 | 0.75\% |
| :---: | :---: | :---: | :---: | :---: |
|  | A |  | 27,940 | 0.91\% |
|  | BBB- |  | 6,232 | 0.20\% |
|  | BB+ |  | 58 | 0.00\% |
|  | NR |  | 2,827 | 0.09\% |
| Total International Government Securities |  | \$ | 60,141 | 1.95\% |
| Municipal Bonds | AAA | \$ | 4,552 | 0.15\% |
|  | AA+ |  | 3,683 | 0.12\% |
|  | AA- |  | 3,326 | 0.11\% |
|  | A+ |  | 3,990 | 0.13\% |
|  | A |  | 1,663 | 0.05\% |
|  | A- |  | 2,408 | 0.08\% |
|  | BBB+ |  | 955 | 0.03\% |
|  | BBB |  | 524 | 0.01\% |
| Total Municipal Bonds |  | \$ | 21,101 | 0.68\% |
| U.S. Government Securities | AGY (1) | \$ | 310,385 | 10.12\% |
|  | TSY (2) |  | 805,856 | 26.27\% |
|  | A |  | 1,472 | 0.05\% |
|  | A- |  | 649 | 0.02\% |
|  | BBB+ |  | 645 | 0.02\% |
|  | BBB |  | 4,526 | 0.15\% |
|  | BBB- |  | 2,435 | 0.08\% |
|  | BB |  | 1,700 | 0.06\% |
|  | BB- |  | 1,114 | 0.04\% |
|  | B |  | 1,272 | 0.04\% |
|  | B- |  | 1,546 | 0.05\% |
|  | NR |  | 3,713 | 0.12\% |
| Total U.S. Government Government Securities |  | \$ | 1,135,313 | 37.02\% |
|  |  | \$ | 3,068,134 | 100.00\% |

(1) U.S. Agency securities - implicity guaranteed by the U.S. Government.
(2) Treasury Securities which are explicity guaranteed by the U.S. Government.

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE C--CASH AND INVESTMENTS--Continued

Interest Rate Risk: Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. While all investments are subject to market changes, securities invested in index funds are more sensitive to market risk. Although the System's investment policy does not specifically address the duration of fixed-income securities, the System's management does monitor interest rate risk by monitoring the performance of each investment manager. As of June 30, 2010, the System had the following investments with maturities:

|  | Investment Maturities at Fair Value (in Years) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (Amounts in Thousands) |  |  |  |  |  |  |  |  |  |
| Investment Type | Less than One |  | One to Five |  | Five to Ten |  | More than Ten Total Fair Value |  |  |  |
| U.S. government securities | \$ | 50,365 | \$ | 323,386 | \$ | 166,797 | \$ | 615,866 | \$ | 1,156,414 |
| International government securities |  | 27,998 |  | 11,834 |  | 11,095 |  | 9,214 |  | 60,141 |
| U.S. corporate securities |  |  |  |  |  |  |  |  |  |  |
| Asset-backed securities |  | 35,447 |  | 30,110 |  | 12,782 |  | 7,379 |  | 85,718 |
| CMO/REMIC/CMBS |  | 87,021 |  | - |  | 703 |  | 89,602 |  | 177,326 |
| Corporate bonds |  | 52,263 |  | 439,286 |  | 800,244 |  | 296,591 |  | 1,588,384 |
|  |  | 174,731 |  | 469,396 |  | 813,729 |  | 393,572 |  | 1,851,428 |
| International corporate bonds |  | 151 |  | - |  | - |  | - |  | 151 |
|  | \$ | 253,245 | \$ | 804,616 | \$ | 991,621 | \$ | 1,018,652 | \$ | 3,068,134 |

NOTES TO FINANCIAL STATEMENTS--Continued

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE C--CASH AND INVESTMENTS--Continued

Foreign Currency Risk: Foreign currency risk is the potential risk for loss due to changes in exchange rates. The System's investment policy provides that international investment managers invest no more than $30 \%$ of their portfolio's total assets in one or more issuers in a single country, provided that in the U.K. such limit shall be $35 \%$. Investment in cash and cash equivalents, foreign equities, and fixed-income securities as of June 30, 2010 is shown in the following table by monetary unit to indicate possible foreign currency risk.


## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE C--CASH AND INVESTMENTS--Continued

Derivative Instruments: The System's investment derivatives included forward contracts on mortgage-backed securities classified as to-be-announced ("TBA") securities, and forward currency contracts. These investments are not speculative in nature and do not increase investment risk beyond allowable limits specified in the System's investment policy. The fair value balances and notional amounts of derivative instruments outstanding at June 30, 2010, classified by type, and the changes in fair value of such derivative instruments for the year then ended as reported in the 2010 financial statements are as follows:

|  |  |  |  | unts in Thous |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Investment | Change in | fa | ir value | Fair Value at |  | 0,2010 |  |  |
| Derivatives | Classification |  | Amount | Classification |  | ount |  | tional |
| Foreign Currency Forward | Investment income | \$ | 4,666 | Investments | \$ | 1,811 | \$ | $(82,465)$ |
| TBA securities | Investment income |  | 590 | Investments |  | 45,266 |  | 42,800 |

A TBA is a forward contract on a mortgage-backed securities trade. The derivative is a promise to either buy or sell a mortgage-backed securities trade but does not include a specified number of pools or precise amount to be delivered until settlement. A foreign currency forward contract is an agreement that obligates the parties to exchange given quantities of currencies at a prespecified exchange rate on a certain future date. The fair values of the forward contracts are estimated based on the present value of their estimated future cash flows.

The foreign currency forward contracts subject the System to foreign currency risk because the investments are denominated in international currencies. The risks are described in foreign currency risk schedule where the fair value of the foreign currency contracts in U.S. dollars is presented.

The TBA investments at year end were all included in the domestic governmental bonds in the credit ratings schedule with a rating by Standard \& Poor's of AAA.

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA
June 30, 2010

## NOTE D--SECURITIES LENDING ACTIVITY

The System's investment policy and State statutes provide for its participation in a securities lending program. The program is administered by the System's master custodian and there are no restrictions on the amount of loans that can be made. Certain securities of the System are loaned to participating brokers, who must provide collateral in the form of cash, U. S. Treasury or government agency securities, or letters of credit issued by approved banks. Under the terms of the agreement, collateralization of the fair value of the loaned securities must be provided in the amount of $102 \%$ when the security to be loaned and the collateral are in the same currency and $105 \%$ when the loan and collateral currencies are dissimilar.

The fair value of securities on loan at June 30 , 2010 was approximately $\$ 2,229,721,000$. The underlying collateral for these securities had a fair value of approximately $\$ 2,364,256,000$ at June 30, 2010. Collateral of securities and letters of credit represented approximately $\$ 116,508,000$ of total collateral at June 30, 2010. Because the System cannot pledge or sell collateral securities and letters of credit received unless the borrower defaults, the collateral and related liability are not presented in the accompanying statements of plan net assets. The following table describes the types of securities lent and collateral as of June 30, 2010.

| Type of securities on loan | (Amounts <br> Market Value of Securities on Loan |  |  | nds) |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Collateral Value |  |
| Corporate equity loans compared to cash collateral | \$ | 1,595,507 | \$ | 1,645,081 |
| Equity loans compared to cash collateral |  | 107,633 |  | 113,218 |
| Government loans compared to cash collateral |  | 481,893 |  | 489,449 |
| Government loans compared to non-cash collateral |  | 114,688 |  | 116,508 |
|  | \$ | 2,299,721 | \$ | 2,364,256 |

At June 30, 2010, the System had no credit risk exposure since the amounts the System owed to borrowers exceeded the amounts borrowers owed the System. The contract with the System's lending agent requires it to indemnify the System if the borrowers fail to return the lent securities. In the event of a collateral shortfall due to a loss in value of investments made with cash collateral, such loss would be the responsibility of the System. The System previously held a $\$ 35$ million position in JP Morgan's securities lending program with Lehman Brothers bonds as collateral. The market value at June 30, 2009 had decreased to approximately $\$ 5.1$ million. The System recorded the collateral deficiency of $\$ 29.9$ million as an unrealized loss in the 2009 statement of changes in plan net assets. At June 30, 2010 the market value had increased to $\$ 6.8$ million, resulting in an unrealized gain of $\$ 1.7$ million in the statement of changes in plan net assets. The outcome of the Lehman Brothers bankruptcy has yet to be determined at June 30, 2010.

NOTES TO FINANCIAL STATEMENTS--Continued

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE D--SECURITIES LENDING ACTIVITY--Continued

All securities loans can be terminated on demand by either the System or the borrower. Cash collateral is invested in a separate account for the System in accordance with investment guidelines approved by the System. At June 30, 2010 and 2009, the weighted average maturity of the cash collateral investments was 23 days and 7 days, respectively. The cash collateral investments are structured and maintained by the lending agent's investment desk utilizing an asset and liability methodology designed to manage to an appropriate extent any mismatch between the investment maturities and the System's loans.

## NOTE E--CAPITAL ASSETS

Capital assets consist of the following at June 30:

|  | (Amounts in Thousands) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2010 |  | 2009 |  |
| Furniture and fixtures | \$ | 1,289 | \$ | 1,423 |
| Accumulated depreciation |  | $(1,101)$ |  | $(1,199)$ |
| Capital assets, net | \$ | 188 | \$ | 224 |

The System has commitments to lease building space as well as leases on certain equipment. The future minimum commitment for operating leases as of June 30, 2010 was approximately $\$ 207,000$. The System's leases are one-year renewable contracts. Rental expense for all operating leases amounted to approximately $\$ 228,000$ and $\$ 228,000$ for the years ended June 30, 2010 and 2009, respectively.

## NOTE F--RESERVE AND DESIGNATED FUNDS

The amount included in the Teachers' Deposit Fund, the Expense Fund, and the Capital Assets Fund is not available to pay regular retirement benefits. A brief description of the major funds is as follows:

The Teachers' Deposit Fund represents funds in the DC Plan. During FY 2010, the System hired ING as the service provider for the DC Plan. This process was undertaken to steadfastly provide a supplemental retirement program that will enhance the System's clients' retirement future. ING provides a comprehensive educational strategy, an array of investment options, clients have 24 hours a day access to their accounts on line, and dedicated customer service representatives available each weekday from 7:00 am to 7:00 pm.

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA
June 30, 2010

## NOTE F--RESERVE AND DESIGNATED FUNDS--Continued

- The Expense Fund represents funds accumulated to pay for the expense of administering and maintaining the System budgeted for the next fiscal year plus any accrued administrative costs as of the current fiscal year-end.
- The Capital Assets Fund represents the net book value of furniture and fixtures for the System.

The Funds had the following approximate balances at June 30:

|  | (Amounts in Thousands) |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2010 |  | 2009 |  |
| Teacher's deposit fund (DC Plan) | \$ | 214,957 | \$ | 225,308 |
| Expense fund |  | 64,297 |  | 51,139 |
| Capital assets fund |  | 188 |  | 224 |
|  | \$ | 279,442 | \$ | 276,671 |

## NOTE G--CONTRIBUTIONS

All contribution rates are defined or amended by the Oklahoma Legislature. All active members contribute to the System; however, the employer may elect to make all or part of the contribution for its employees. There are special provisions for members of higher education who joined the System before July 1, 1995. The annual employer contributions reported for the years ended June 30, 2010 and 2009 were $\$ 366,282,238$ and $\$ 338,974,512$, respectively. Employers satisfied $100 \%$ of their contribution requirements for 2010 and 2009.

All members must contribute $7 \%$ of regular annual compensation, not to exceed the member's maximum compensation level, which for the years ended June 30, 2010 and 2009, was the full amount of regular annual compensation.

The employers are required to contribute a fixed percentage of annual compensation on behalf of active clients. The employer contribution rate was $7.85 \%$ from July 1, 2007 to December 31, 2007; $8.35 \%$ from January 1, 2008 to June 30, 2008; 8.5\% on July 1, 2008; 9\% from January 1, 2009 to December 31, 2009; and $9.5 \%$ on January 1, 2010 for all remitting entities other than comprehensive and four year regional universities. The employer contribution rate was $7.05 \%$ from July 1, 2007 to December 31, 2007; 7.55\% starting on January 1, 2008; 8.05\% starting on January 1, 2009; and $8.55 \%$ starting on January 1, 2010 for comprehensive and four year universities. The rates for fiscal years 2010 and 2009 are applied up to defined caps depending upon the member's elections as previously described.

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE H--BENEFITS

The System provides defined retirement benefits based on members' final compensation, age, and term of service. In addition, the retirement program provides for benefits upon disability and to survivors upon the death of eligible members. Title 70 O. S. Sec. 17-105 defines all retirement benefits. The authority to establish and amend benefit provisions rests with the State Legislature.

Benefit provisions include:

- Members become $100 \%$ vested in retirement benefits earned to date after five years of credited Oklahoma service. Members, who joined the System on June 30, 1992, or prior, are eligible to retire at maximum benefits when age and years of creditable service total 80. Members joining the System after June 30, 1992 are eligible for maximum benefits when their age and years of creditable service total 90 . Members whose age and service do not equal the eligible limit may receive reduced benefits as early as age 55, and at age 62 receive unreduced benefits based on their years of service. The maximum retirement benefit is equal to $2 \%$ of final compensation for each year of credited service.
- Final compensation for members who joined the System prior to July 1, 1992 is defined as the average salary for the three highest years of compensation. Final compensation for members joining the System after June 30, 1992 is defined as the average of the highest five consecutive years of annual compensation in which contributions have been made. The final average compensation is limited for service credit accumulated prior to July 1, 1995 to $\$ 40,000$ or $\$ 25,000$, depending on the member's election. Monthly benefits are $1 / 12$ of this amount. Service credits accumulated after June 30, 1995 is calculated based on each member's final average compensation, except for certain employees of the two comprehensive universities.
- Upon the death of a member who has not yet retired, the designated beneficiary shall receive the member's total contributions plus $100 \%$ of interest earned through the end of the fiscal year, with interest rates varying based on time of service. A surviving spouse of a qualified member may elect to receive, in lieu of the aforementioned benefits, the retirement benefit the member was entitled to at the time of death as provided under the Joint Survivor Benefit Option.
- Upon the death of a retired member, the System will pay $\$ 5,000$ to the designated beneficiary, in addition to the benefits provided for the retirement option selected by the member.
- A member is eligible for disability benefits after ten years of credited Oklahoma service. The disability benefit is equal to $2 \%$ of final average compensation for the applicable years of credited service.

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA
June 30, 2010

## NOTE H--BENEFITS--Continued

- Upon separation from the System, members' contributions are refundable with interest based on certain restrictions provided in the plan, or by the IRC.
- Members may elect to make additional contributions to a tax-sheltered annuity program up to the exclusion allowance provided under the IRC under Code Section 403(b).

At the election of each eligible member initiating receipt of retirement benefits, the System remits between $\$ 100$ and $\$ 105$ per month per eligible retiree to the Oklahoma State and Education Employees Group Insurance Board ("OSEEGIB"), depending on the members' years of service during 2010 and 2009. Such amounts were approximately \$29,916,000 and \$30,523,000 in 2010 and 2009, respectively, and are included in retirement and other benefits expense. Amounts due to OSEEGIB at June 30, 2010 and 2009, respectively are approximately $\$ 2,394,000$ and $\$ 2,534,000$ and are included in benefits in process of payment. The System performs no administrative functions related to the benefits provided by OSEEGIB and the payments have a minimal and declining impact on the operation of the System.

## NOTE I--DEDICATED TAX

The System receives $5.0 \%$ of the State's sales, use, and corporate and individual income taxes collected as dedicated tax. The System receives $1 \%$ of the cigarette taxes collected by the State and receives $5 \%$ of net lottery proceeds collected by the State. The System received approximately $\$ 228,000,000$ and $\$ 257,000,000$ from the State in 2010 and 2009, respectively. Amounts due from the State were approximately $\$ 23,543,000$ and $\$ 23,186,000$ at June 30, 2010 and 2009, respectively.

## NOTE J--PENSION PLAN FOR EMPLOYEES OF THE SYSTEM

The System also makes employer contributions for its employees who are also members of the System. The System's contributions are under the same terms as other participating employers, as discussed in Note G. In addition to the employer contributions, the System also pays the employees' contributions as a fringe benefit. Benefits paid to members that worked for the System are the same as those described in Note H. The total employee contributions paid by the System for its employees were approximately $\$ 204,000, \$ 211,000$, and $\$ 209,000$ for the years ended June 30, 2010, 2009, and 2008, respectively. Total employer contributions paid by the System were approximately $\$ 251,000$ and $\$ 264,000$, and $\$ 242,000$ for the years ended June 30, 2010, 2009, and 2008 respectively. The employer contributions for FY 2010, 2009, and 2008 were $83.6 \%, 86.6 \%$, and $101.1 \%$, respectively, of the actuarial determined annual required contribution amounts and $100 \%$ of the contribution rate amounts determined by the legislature.

NOTES TO FINANCIAL STATEMENTS--Continued

TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA
June 30, 2010

## NOTE K--PLAN AMENDMENTS

This year's legislative session resulted in a few significant changes to the benefit options under Senate Bill ("SB") 859 and SB 1662. These laws went into effect July 1, 2010.

Contained within the provisions of SB 859 is the ability for a beneficiary of an active or retired client to assign a portion of the death benefits. These funds can be assigned to a funeral home licensed to provide funeral services for the deceased client, allowing the beneficiary to avoid paying income taxes on the death benefit. Another provision of SB 859 allows a retired client who selected the Maximum retirement benefit plan and marries after retirement to make a onetime election to choose either Option 2 or Option 3 and name the client's spouse as the joint annuitant. The client must provide proof of good health before the Board of Trustees will allow a change. A medical examination by a licensed physician is required for purposes of determining reasonable "good health" according to your age and past medical history.

The election to select a different retirement benefit plan must be made by July 1, 2011, or within one (1) year of the date of marriage, whichever is later. If approved, your monthly benefit payment will be adjusted to the actuarially equivalent amount based upon your joint annuitant's age.

Under the provisions of SB 1662, a retired client may select a different retirement option after retirement. Clients who retired under Option 1, 2, 3, or 4 may make a one-time irrevocable election to select a different option, but must do so within 60 days of their effective retirement date. The joint annuitant designated at the time of retirement may not be changed if a client elects a different retirement option under this provision.

## NOTE L--DB PLAN FUNDING STATUS AND ACTUARIAL INFORMATION

The System's actuary conducts an annual valuation to determine the adequacy of the current employer contribution rates, to describe the current financial condition of the System, and to analyze changes in the System's condition. This valuation shows the funded position of the System decreased from the funding level at June 30, 2009. Based on current statutes for determining the state, federal, and employer contribution rates, the funded period which is the number of years that would be required to amortize the unfunded actuarial accrued liability (the "UAAL") is infinite. The period to fully amortize the UAAL as of June 30, 2009 was also infinite. The actuarial accrued liability increased $\$ 1,029.7$ million and the actuarial value of assets increased $\$ 127.7$ million. As a result, the System's unfunded actuarial accrued liabilities increased $\$ 902$ million to $\$ 10,414$ million at June 30,2010 . The funded ratio - actuarial value of assets divided by actuarial accrued liability - decreased from $49.8 \%$ to $47.9 \%$. The increase in

NOTES TO FINANCIAL STATEMENTS--Continued
TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE L--DB PLAN FUNDING STATUS AND ACTUARIAL INFORMATION--Continued

the UAAL and the funding period is principally due to significant market asset losses as well as changes in assumptions effective in the June 30, 2010 valuation. Based on the current contribution schedule, assuming no actuarial gains or losses in the future, the UAAL is expected to continue increasing from the current level. The current contribution schedule results in contributions insufficient to cover the interest on the current UAAL plus the normal cost resulting in negative amortization.

The funded status of the System as of June 30, 2010, the most recent actuarial date, is as follows:

| Actuarial value of assets (a) | $\$$ | $9,566.7$ |  |
| :--- | :--- | ---: | ---: |
| Actuarial accrued liability (AAL) (b) | $\$$ | $19,980.6$ |  |
| Total unfunded actuarial accrued <br> $\quad$ liability (UAAL) (b-a) | $\$$ | $10,414.0$ |  |
| Funded ratio (a/b) <br> Covered payroll | $\$$ | $3,854.8$ | $47.9 \%$ |
| UAAL as a percentage of covered <br> payroll | $\$$ |  | $270.2 \%$ |

The Schedule of Funding Progress immediately following the notes to the financial statements presents multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing relative to the actuarial accrued liability for benefits over time. The figures above (the UAAL, the funded ratio, and the funded period) are based on actuarial calculations that make use of the actuarial value of assets, not the fair value. Asset gains and losses (earnings greater or less than the $8 \%$ investment return assumption) are recognized $20 \%$ per year for five years in the actuarial value of assets; the current actuarial value ( $\$ 9.567$ billion) is $\$ 1.215$ billion larger than the market value of net assets ( $\$ 8.352$ billion).

Significant actuarial assumptions employed by the actuary for funding purposes as of July 1, 2010 are as follows:

Funding Method: Costs are developed using the entry age normal cost method (based on a level percentage of covered payrolls). Under the method used for the System, the accrued liability and the present value of future normal costs are determined by summing the individual entry age results for each participant. The normal cost is then determined in aggregate by spreading the present value of future normal costs as a level percentage of expected future covered payrolls. Entry age is defined as the first day service is credited under the System.

NOTES TO FINANCIAL STATEMENTS--Continued

TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

June 30, 2010

## NOTE L--DB PLAN FUNDING STATUS AND ACTUARIAL INFORMATION--Continued

Funding Method--Continued: Experience gains and losses (i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumption) adjust the unfunded actuarial accrued liability.

Asset Valuation Method: The actuarial value of assets is equal to the market value, adjusted for a five-year phase in of actual investment return in excess of expected investment return. The actual return is calculated net of investment and administrative expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

Amortization: The unfunded actuarial accrued liability is amortized on a percent of pay method over a 30 -year open period.

Investment Return: 8\% per annum, compounded annually, (includes inflation of 3\%).
Salary Increases: $4 \%$ to $12 \%$ per year (includes inflation of $3 \%$ and a productivity increase of $1 \%$ ).
Based on an experience study for the 5 years ended June 30, 2010 certain actuarial assumptions were changed such as modifications to disability, termination and retirement rates. Additionally, the salary increase rate changed from a range of $4 \%$ to $6 \%$ per year, to $4 \%$ to $12 \%$ per year and certain mortality rate tables were changed.

SCHEDULE OF FUNDING PROGRESS AND SCHEDULE OF EMPLOYERS' CONTRIBUTIONS (UNAUDITED)

TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

| Actuarial Valuation Date | Actuarial <br> Value of Assets $(\mathrm{AVA})(\mathrm{a})$ |  | Actuarial <br> Accrued <br> Liability <br> (AAL) (b) |  | UnfundedActuarialAccruedLiability(UAAL) (b) - (a) |  |  | Annual <br> Covered <br> Payroll |  | UAAL as \% of Covered Payroll ( $(\mathrm{b}-\mathrm{a}) / \mathrm{c})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
| June 30, 2005 | \$ | 6,952.7 | \$ | 14,052.4 | \$ | 7,099.7 | 49.5\% | \$ | 3,175.2 | 223.6\% |
| June 30, 2006 |  | 7,470.4 |  | 15,143.4 |  | 7,672.9 | 49.3\% |  | 3,354.9 | 228.7\% |
| June 30, 2007 |  | 8,421.9 |  | 16,024.4 |  | 7,602.5 | 52.6\% |  | 3,598.9 | 211.2\% |
| June 30, 2008 |  | 9,256.8 |  | 18,346.9 |  | 9,090.1 | 50.5\% |  | 3,751.4 | 242.3\% |
| June 30, 2009 |  | 9,439.0 |  | 18,950.9 |  | 9,512.0 | 49.8\% |  | 3,807.9 | 249.8\% |
| June 30, 2010 |  | 9,566.7 |  | 19,980.6 |  | 10,414.0 | 47.9\% |  | 3,854.8 | 270.2\% |

## SCHEDULE OF EMPLOYERS' CONTRIBUTIONS (UNAUDITED)

| Fiscal Year <br> Ended <br> June 30, <br> 2005 <br> 2006 <br> 2007 <br> 2008 <br> 2009 <br> 2010$\$ .$${ }^{2}$ |
| :---: |

The employer contribution rates are established by the Oklahoma Legislature and are less than the annual required contribution, which is performed to determine the adequacy of such contribution rates.

Unaudited - see accompanying independent auditors' report.

## SCHEDULES OF INVESTMENT EXPENSES

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

|  | Year Ended <br> June 30 |  |
| :---: | :---: | :---: |
|  | 2010 | 2009 |
| Investment managers | \$ 30,038,521 | \$ 26,342,574 |
| Investment consultants | 768,424 | 742,681 |
| Investment information services | 4,139 | 17,237 |
| Total investment expenses | \$ 30,811,084 | \$ 27,102,492 |

## SCHEDULES OF ADMINISTRATIVE EXPENSES

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

|  | $\begin{aligned} & \text { Year Ended } \\ & \text { June } 30 \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2010 |  | 2009 |  |
| Salaries and benefits | \$ | 3,527,880 | \$ | 3,682,153 |
| General and miscellaneous |  | 829,973 |  | 825,737 |
| Professional/consultant fees |  | 450,095 |  | 517,645 |
| Travel and related expenses |  | 106,981 |  | 104,733 |
| Depreciation expense |  | 64,660 |  | 86,225 |
| Total administrative expenses | \$ | 4,979,589 | \$ | 5,216,493 |

## SCHEDULES OF PROFESSIONAL/CONSULTANT FEES

## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

|  | Year Ended June 30 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2010 |  | 2009 |  |
| Actuarial | \$ | 99,368 | \$ | 83,846 |
| Medical |  | 9,600 |  | 11,174 |
| Legal |  | 69,735 |  | 165,520 |
| Audit |  | 44,800 |  | 44,800 |
| Data processing |  | 120,505 |  | 132,790 |
| Miscellaneous |  | 106,087 |  | 79,515 |
| Total professional/ consultant fees | \$ | 450,095 | \$ | 517,645 |

## COLE+REEDp.c.

Independent Auditors' Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards

Board of Trustees<br>Teachers' Retirement System of Oklahoma

We have audited the financial statements of Teachers' Retirement System of Oklahoma (the "System"), which is a component unit of the state of Oklahoma, as of and for the year ended June 30, 2010, and have issued our report thereon dated November 15, 2010, which includes explanatory paragraphs related to the System's unfunded actuarial accrued liability, required supplementary information and other supplementary information. We conducted our audit in accordance with U.S. generally accepted auditing standards and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States.

## Internal Control over Financial Reporting

In planning and performing our audit of the financial statements of the System as of and for the year ended June 30, 2010, in accordance with auditing standards generally accepted in the United States of America, we considered the System's internal control over financial reporting (internal control) as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, we do not express an opinion on the effectiveness of the System's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A material weakness is a deficiency, or combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and would not necessarily identify all deficiencies in internal control that might be deficiencies, significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control that we consider to be material weaknesses, as defined above.

However, we identified a deficiency in internal control that did not constitute a significant deficiency or material weakness. The deficiency has been communicated to management in a separate letter dated November 15, 2010.

## Compliance and Other Matters

As part of obtaining reasonable assurance about whether the System's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under Government Auditing Standards.

This report is intended solely for the information and use of the Board of Trustees, the Oklahoma State Auditor and Inspector, and management and is not intended to be and should not be used by anyone other than these specified parties.


Oklahoma City, Oklahoma
November 15, 2010

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## Section Three: Investment

## Comprehensive Annual Financial Report

Fiscal Year Ended June 30, 201

Oklahoma Teachers Retirement System


## Mission Action Plan

Point Three: Consistently improve performance


## TEACHERS' RETIREMENT SYSTEM OF OKLAHOMA

PROFESSIONAL CONSULTANTS AND ADVISORS

## DOMESTIC EQUITY MANAGERS

Advisory Research, Inc., All-Capitalization
Chicago, Illinois
Aronson + Johnson + Ortiz, Mid-Capitalization Core Philadelphia, Pennsylvania
Frontier Asset Management, Mid-Capitalization Growth Boston, Massachusetts
Goldman Sachs Asset Management, Large-Capitalization Growth Tampa, Florida
Hotchkis \& Wiley Investment, Large-Capitalization Value Los Angeles, California
Hotchkis \& Wiley Investment, Mid-Capitalization Value Los Angeles, California
Sawgrass Asset Management, LLC, Large-Capitalization Growth Jacksonville Beach, Florida
Shapiro Capital Management Company, Inc., Small-Capitalization Value Atlanta, Georgia
Tocqueville Asset Management, LP, Small-Capitalization Value New York City, New York
Wellington Management Company, LLP, Mid-Capitalization Growth Boston, Massachusetts

## DOMESTIC FIXED INCOME MANAGERS

Hoisington Investment Management Company, Interest Rate Sensitive Austin, Texas
Loomis, Sayles \& Company, LP, Active Chicago, Illinois
Lord Abbett \& Company, LLC, Core + Active Jersey City, New Jersey
MacKay Shields, LLC, Core+ Active New York City, New York
Pacific Investment Management Company, Active Newport Beach, California
Stephens Capital Management, Interest Rate Sensitive Little Rock, Arkansas

## INTERNATIONAL EQUITY MANAGERS

Brandes Investment Partners, LP San Diego, California Capital Guardian San Francisco, California
Causeway Capital Management, LLC Los Angeles, California
Thornburg Investment Management, Inc. Santa Fe, New Mexico

## PRIVATE EQUITY MANAGERS

Franklin Park, LLC, Private Equity
Bala Cynwyd, Pennsylvania
ADVISORS AND CONSULTANTS
JP Morgan, World Wide Securities Services, Global Custodian/Securities Lending
Oklahoma City, Oklahoma
gregorywgroup, Investment Consultant Tulsa, Oklahoma
Gabriel, Roeder, Smith \& Company, Actuarial Consultant Dallas, Texas
Cole \& Reed, PC, External Auditor
Office of the Attorney General, Legal Counsel
Oklahoma City, Oklahoma

## STATEMENT OF INVESTMENT POLICIES

The Oklahoma Teachers Retirement System (OTRS) policies and procedures provide for a prudent and systematic investment process on behalf of its members, allowing for reasonable expenses of administration of the Fund, and providing for an orderly means whereby employees may be retired from active service with all pension benefits allowed by Oklahoma statutes. The Standard of Investment for the Board of Trustees in making investments shall be to exercise the judgment, care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like-capacity and familiar with such matters would use in the conduct of an enterprise of a likecharacter.

The Board of Trustees diversifies investments to minimize risk. The investment objectives of the Board, as fiduciaries, are long-term rather than short-term. Board policy takes into consideration actuarial assumptions of the retirement program and any unfunded liabilities.

## INVESTMENT POLICY ALLOCATION

In the pursuit of long-term returns in excess of our 8.0 percent actuarial assumption, while maintaining the goal of capital preservation, OTRS has codified diversified policy asset allocation. The resulting diversified portfolio is designed to enhance long-term returns while mitigating short-term variability. The those ends the OTRS policy allocation exposes a 70 percent allocation to domestic and developed market equities, and a 30 percent allocation to fixed income. All investments are managed by external active managers.


# Fiscal Year-end Allocation 



In response to the decline in the equity markets, the Board of Trustees tactically allowed equities to drift to underweight. In lieu of rebalancing to the System's policy allocation of 70 percent equities, the Board of Trustees elected to deploy 10 percent of the fund's assets into a high yield bonds allocation.

## INVESTMENT PERFORMANCE

To achieve the investment goals set forth by the OTRS Investment Policy Guidelines, the Board of Trustees employs a strategy of active management. For the Fiscal Year 2010 the Fund realized a, gross of fees, rate of return of 16.6 percent. Investment returns achieved through June 30, 2010 have been calculated using a time-weighted rate of return methodology based on market returns.

This report is prepared by:

Nick Pointer
Investment Analyst

FY 10 Strategy Performance


$$
\begin{aligned}
& \text { - OTRS Portfolio Benchmark }
\end{aligned}
$$

* All returns are calculated on a time-weighted basis

The Board of Trustees has established an investment goal to exceed the policy benchmark by at least 1 percent, net of fees. Since inception the OTRS Composite has returned 8.72 percent, gross of fees, while the policy benchmark has returned 8.54 percent.


* Policy benchmark consists of $28 \%$ S\&P 500, 15\% Russell Midcap, 10\% Russell 2000, 17\% MSCI EAFE, 30\% Barclays Capital Aggregate


## Top Ten Holdings

As of the fiscal year ended June 30, 2010 the top ten holdings comprised approximately $\$ 525$ million of the total OTRS portfolio. The top ten holding constituted 6.3 percent of total portfolio.

|  | Sum of Market <br> Value |
| :--- | ---: |
| Security Description | $\$ 88,307,638.69$ |
| U S TREAS BD STRIPPED PRIN PMT 6.125\% 15/NOV/2027 | $\$ 75,735,657.31$ |
| PIMCO DISTRESSED MORTGAGE FUND | $\$ 69,964,187.80$ |
| UNITED STATES OF AMER TREAS BONDS 4.25\% BDS | $\$ 62,206,154.40$ |
| MICROSOFT CORP COM STK USD0.00000625 | $\$ 44,508,233.50$ |
| APPLE INC COM STK NPV | $\$ 43,100,707.50$ |
| PIMCO DISTRESSED MORTGAGE FUND II | $\$ 42,530,565.00$ |
| USA TREASURY BDS 4.5\% DEB 15/FEB/2036 USD1000 | $\$ 34,696,252.00$ |
| BILL BARRETT CORP COM NPV | $\$ 32,913,295.00$ |
| CISCO SYSTEMS INC COM STK USD0.001 | $\$ 31,229,837.00$ |
| U TREAS BD STRIPPED PRIN PMT 04.500\% | $\$ 525,192,528.20$ |

## Investment Expenses

For the Fiscal Year 2010, investment fees paid to investment management firms employed by the System were as follows:

| Investment Manager | Fees Paid |
| :--- | ---: |
| GWG | 592,924 |
| ADVISORY RESEARCH | $1,072,671$ |
| BRANDES INVESTMENT | $1,728,359$ |
| CAPITAL GUARDIAN | $1,064,941$ |
| CAUSEWAY CAPITAL | $1,072,587$ |
| CHASE INVESTMENT | 492,326 |
| EPOCH INVESTMENT | $1,608,793$ |
| FRONTIER CAPITAL | $1,806,890$ |
| GOLDMAN SACHS | $1,567,102$ |
| HOISINGTON INVESTMENT | 508,740 |
| HOTCHKIS WILEY LARGE-CAP | $1,106,054$ |
| HOTCHKIS WILEY MID-CAP | $1,373,730$ |
| LOOMIS SAYLES | 423,590 |
| LOOMIS SAYLES High Yield | $1,592,078$ |
| LORD ABBETT | 724,168 |
| LORD ABBETT High Yield | $1,224,745$ |
| MACKAY SHIELDS | 463,066 |


| MACKAY SHIELDS High Yield | $1,550,595$ |
| :--- | ---: |
| PIMCO | $1,018,565$ |
| SAWGRASS ASSET | $1,530,520$ |
| SHAPIRO CAPITAL | $2,900,555$ |
| STEPHENS CAPITAL | 273,874 |
| THORNBURG INVESTMENT | $1,334,914$ |
| TOCQUEVILLE ASSET | $2,551,530$ |
| WELLINGTON MANAGEMENT | $1,227,765$ |
| Total | $\$ 30,811,084$ |


| Brokerage | Sum of <br> Quantity | Commissions | Commissions <br> per Share |
| :--- | ---: | ---: | ---: |
| 156 ** EUROCLEAR ** | 900 | 74.82 | 0.083 |
| 311 GOLDMAN SACHS ** EUROCLEAR ** | 27100 | 611.62 | 0.023 |
| 311 GOLDMAN SACHS INTL LONDON ** EUROCLE | 3634 | 69.3 | 0.019 |
| 471 J.P. MORGAN SECURITIES ** EUROCLEAR | 58908 | 2009.36 | 0.034 |
| 491 MORGAN STANLEY \& CO INTL LDN ** EURO | 10200 | 121.04 | 0.012 |
| 491 MORGAN STANLEY ** EUROCLEAR ** | 5971 | 77.54 | 0.013 |
| 4937 CREDIT SUISSE FIRST BOSTON NEW **E | 37800 | 715.04 | 0.019 |
| 581 MERRILL LYNCH ** EUROCLEAR ** | 10026 | 185.88 | 0.019 |
| 601 SALOMON BROS ** EUROCLEAR ** | 1500 | 67.37 | 0.045 |
| 6294 WARBURG DILLON READ SECS LDN ** EUR | 20200 | 436.75 | 0.022 |
| A G EDWARDS \& SONS INC | 1291050 | 51582 | 0.040 |
| ABEL NOSER CORP | 10360301 | 18872.51 | 0.011 |
| ABG SECURITIES STOCKHOLM | 92700 | 2913.82 | 0.031 |
| ABG SECURITIES, OSLO | 84000 | 4466.49 | 0.053 |
| ABN AMRO BANK N.V. HONG KONG | 953000 | 406.38 | 0.000 |
| ABN AMRO EQUITIES LONDON | 903451 | 9199.69 | 0.010 |
| ADAMS HARKNESS \& HILL INC | 340800 | 13701 | 0.040 |
| ADP CLEARING \& OUTSOURCING SERVICES, | 175200 | 4282 | 0.024 |
| ALBERT FRIED \& CO | 8100 | 324 | 0.040 |
| ALLEN \& COMPANY INC | 351562 | 5784.93 | 0.016 |
| ALPES C.C.T.V.M. LTDA | 192110 | 2747.29 | 0.014 |
| ARNHOLD \& S BLEICHROEDER INC | 80700 | 3228 | 0.040 |
| ASIEL \& CO | 10100 | 404 | 0.040 |
| AUTRANET INC | 12500 | 125 | 0.010 |
| AVIAN SECURITIES, INC. | 330800 | 6616 | 0.020 |
| AVONDALE PARTNERS, LLC | 34285 | 1459.4 | 0.043 |
| AXA INVESTMENT MNGRS(IRISH X BRDR) | 1014968 | 9134.03 | 0.009 |
| B RILEY AND CO INC | 17200 | 860 | 0.050 |
| BANC OF AMERICA SECURITIES LLC, | 1377857 | 51012.19 | 0.037 |
| BANCA POPOLARE DI CREMONA | 181059 | 1803.16 | 0.010 |
| BANCO INBURSA S.A. MEXICO | 401000 | 2071.69 | 0.005 |
| BANCO SANTANDER CENTRAL NY | 566731 | 3210.69 | 0.006 |
| BANK AM BELLEVUE, ZURICH | 32250 | 1270.62 | 0.039 |
| BANK J VONTOBEL UND CO | 37748 | 2812.73 | 0.075 |
| BANK JULIUS BAER ZURICH | 46754 | 888.27 | 0.019 |
| BANQUE NATIONALE DU CANADA MONTREAL | 13500 | 496.08 | 0.037 |
| BARCLAYS CAPITAL INC./LE | 777300 | 26311 | 0.034 |

BARCLAYS CAPITAL LE
BARNARD JACOBS MELLETT \& CO JBURG BARRINGTON RESEARCH ASSOCIATES INC.
BAYPOINT TRADING LLC
BEAR STEARNS \& CO INC.
BEAR STEARNS SECS CORP NY
BEAR STEARNS SECS CORP NY DTC00352
BEAR, STEARNS SECURITES CORP.
bloomberg tradebook llc BLUEFIN RESEARCH PARTNER INC. BMO CAPITAL MARKETS CORP.
BNP PARIBAS SECURITIES CORP IB BNP PARIBAS SECURITIES SVS. EGS 030 BNP PARIBAS SECURITY SVCS, LONDON BNY CONVERGEX EXECUTION SOLUTIONS LLC BOENNING \& SCATTERGOOD INC BREAN MURRAY INC.
BROAD COURT CAP CORP SUB DIV MERRILL BUCKINGHAM RESEARCH GROUP INC BUNTING WARBURG INC.
CA IB INVESTMENTBANK AG, LONDON
CADARET GRANT CO. INC.
CALYON SECURITIES (USA) DTC00651
CANACCORD ADAMS
CANACCORD CAPITAL CORP VANCOUVER
CANTOR FITZGERALD \& CO INC
CAP INSTITUTIONAL SERVICES INC-EQ
CARNEGIE INTL LTD
CAZANOVE ASIA LIMITED
CAZENOVE \& CO LONDON
CAZENOVE INCORPORATED
CHARLES SCHWAB \& CO INC (CUST)
CHASE MANHATTAN BK CORRES CLR SVCS 2
CHINA INTL CAPITAL CORP HK SECS LTD
CI NORDIC SECURITIES_AB_STOCKHOLM
CIBC WORLD MARKETS CORP.
CIBC WORLD MARKETS TORONTO
CITIBANK CANADA, TORONTO
CITIBANK N.A., LONDON
CITIGROUP GBL MARKETS UK EQUITY LT
CITIGROUP GLOBAL MARKETS INC, NY
CITIGROUP GLOBAL MARKETS INC.
CITIGROUP GLOBAL MARKETS INC/SALOMON
CITIGROUP GLOBAL MARKETS LIMITED
CITIGROUP GLOBAL MKTS AUSTRALIA PTY
CJS SECURITIES
CJS SECURITIES INC
CLEARSTREAM BANKING (DOM) FRANKFURT
CLSA LTD., HONG KONG
COKER, PALMER, PHILLIPS \& MULLER INC
COLLINS STEWART INC.
COWEN AND COMPANY, LLC
CREDIT AGRICOLE INDOSUEZ CHEUVREUX

| 5104644 | 86512.42 | 0.017 |
| :---: | :---: | :---: |
| 8206 | 51.28 | 0.006 |
| 16700 | 668 | 0.040 |
| 1201150 | 41311.57 | 0.034 |
| 535700 | 2678.5 | 0.005 |
| 15490 | 299.48 | 0.019 |
| 312680 | 2288.93 | 0.007 |
| 62515 | 3661.15 | 0.059 |
| 10700 | 53.5 | 0.005 |
| 51700 | 2068 | 0.040 |
| 94900 | 3973 | 0.042 |
| 426200 | 8524 | 0.020 |
| 87897 | 691.74 | 0.008 |
| 79300 | 851.98 | 0.011 |
| 1837255 | 30074.57 | 0.016 |
| 670600 | 15610.5 | 0.023 |
| 101708 | 4068.32 | 0.040 |
| 164400 | 8220 | 0.050 |
| 223924 | 9942.96 | 0.044 |
| 97000 | 4125.6 | 0.043 |
| 19406 | 817.27 | 0.042 |
| 174261 | 6742.83 | 0.039 |
| 8134533 | 19479.47 | 0.002 |
| 306050 | 12538.5 | 0.041 |
| 43800 | 1691.35 | 0.039 |
| 9839191 | 243707.21 | 0.025 |
| 2905232 | 112789.94 | 0.039 |
| 36820 | 673.76 | 0.018 |
| 81500 | 1099.27 | 0.013 |
| 151832 | 1557.88 | 0.010 |
| 154000 | 4620 | 0.030 |
| 33000 | 1320 | 0.040 |
| 18600 | 1266.47 | 0.068 |
| 703200 | 658.83 | 0.001 |
| 134685 | 5119.66 | 0.038 |
| 50300 | 2012 | 0.040 |
| 321091 | 11228.56 | 0.035 |
| 32003 | 1010.84 | 0.032 |
| 28920 | 609.55 | 0.021 |
| 2635871 | 9490.42 | 0.004 |
| 1096928 | 20783.38 | 0.019 |
| 3072216 | 88867.3 | 0.029 |
| 1058 | 5047.5 | 4.771 |
| 3256561 | 57360.48 | 0.018 |
| 412733 | 3007.64 | 0.007 |
| 13350 | 400.5 | 0.030 |
| 21957 | 658.71 | 0.030 |
| 5100 | 247.52 | 0.049 |
| 20300 | 527.48 | 0.026 |
| 66110 | 2644.4 | 0.040 |
| 1739752 | 31494.04 | 0.018 |
| 990900 | 39281 | 0.040 |
| 592812 | 28034.5 | 0.047 |

CREDIT AGRICOLE INDOSUEZ CHVX MILAN CREDIT AGRICOLE INDOSUEZ MADRID CREDIT AGRICOLE.
CREDIT LYONNAIS SEC (USA) INC NY CREDIT LYONNAIS SECS SINGAPORE CREDIT LYONNAIS SECURITIES (USA) INC CREDIT RESEARCH \& TRADING LLC CREDIT SUISSE (EUROPE) LTD CREDIT SUISSE FIRST BOSTON DTC00355 CREDIT SUISSE FIRST BOSTON HKCREDIT SUISSE FIRST BOSTON LLC CREDIT SUISSE FIRST BOSTON SA CTVM, CREDIT SUISSE SECURITIES (EUROPE)LT CREDIT SUISSE SECURITIES (USA) LLC CROWELL WEEDON \& CO CSFB (EUROPE) LTD, SEOUL SECS BRNCH CSFB AUST EQUITIES LTD MELBOURNE CSFB SECURITIES HONG KONG CSFB TAIPEI BRANCH, TAIPEI CSI US INTITUTIONAL DESK
CUTTONE \& CO INC
D A DAVIDSON \& CO INC
DAHLMAN ROSE \& COMPANY, LLC
DAIN RAUSCHER INCORPORATED DAIWA SECS AMERICA INC DTC00647 DAIWA SECS SMBC HK LTD HONG KONG DAIWA SUMITOMO BK CAP MKTS EUROPE DAVENPORT \& CO OF VIRGINIA INC DAVY STOCKBROKERS
DEUTSCHE BANC ALEX BROWN INC.
DEUTSCHE BANK ALEX BROWN
DEUTSCHE BANK SECURITIES INC._NY DEUTSCHE BANK(INTL EQ) LDN CREST201 DEUTSCHE BK AG (CUST SVCS) FRANKFRT DEUTSCHE SECS ASIA LTD TAIPEI DEUTSCHE SECS ASIA LTD, HONG KONG DEUTSCHE SECS ASIA SEOUL DEUTSCHE SECS AUST LTD SYDNEY. DIRECT TRADING INSTITUTIONAL INC DONALDSON LUFKIN JENRETTE (PERSHING) DOWLING \& PARTNERS
DRESDNER BANK AG, LONDON BRANCH DRESDNER KLEINWORT WASSERSTEIN SECS DUNDEE SECURITIES TORONTO EUROMOBILIARE SPA
EVOLUTION BEESON GREGORY LTD
EXANE NEW YORK
EXANE PARIS
EXECUTION (HONG KONG) LIMITED H.K. FIDELITY CAPITAL MARKETS FIRST ANALYSIS SECURITIES CORP FIRST CLEARING, LLC (FCCORP)

| 37612 | 1644.73 | 0.044 |
| ---: | ---: | ---: |
| 8300 | 222.64 | 0.027 |
| 648439 | 2151.49 | 0.003 |
| 31686 | 1963.95 | 0.062 |
| 560111 | 7345.6 | 0.013 |
| 1044181 | 20691.42 | 0.020 |
| 85730 | 3429.2 | 0.040 |
| 102900 | 3939.35 | 0.038 |
| 2426248 | 17587.98 | 0.007 |
| 4422524 | 13469.17 | 0.003 |
| 5626481 | 155593.98 | 0.028 |
| 63600 | 1160.54 | 0.018 |
| 2261762 | 30763.78 | 0.014 |
| 971227 | 9815.4 | 0.010 |
| 175200 | 6925 | 0.040 |
| 14625 | 4681.88 | 0.320 |
| 438987 | 2493.78 | 0.006 |
| 36600 | 479.87 | 0.013 |
| 744000 | 1787.92 | 0.002 |
| 48230 | 1929.2 | 0.040 |
| 735655 | 21928.65 | 0.030 |
| 364118 | 14982.9 | 0.041 |
| 240000 | 9759 | 0.041 |
| 49100 | 1940.25 | 0.040 |
| 446432 | 5275.63 | 0.012 |
| 139500 | 1176.27 | 0.008 |
| 107000 | 1272.83 | 0.012 |
| 210179 | 6421.56 | 0.031 |
| 333065 | 7999.45 | 0.024 |
| 6686909 | 124831.88 | 0.019 |
| 90708 | 3628.32 | 0.040 |
| 1478079 | 21513.86 | 0.015 |
| 592264 | 11541.29 | 0.019 |
| 6884 | 606.16 | 0.088 |
| 335000 | 1089.97 | 0.003 |
| 320500 | 1223.06 | 0.004 |
| 6783 | 2292.17 | 0.338 |
| 660815 | 1483.56 | 0.002 |
| 256940 | 4748.87 | 0.018 |
| 681900 | 25926 | 0.038 |
| 115900 | 5056 | 0.044 |
| 2026 | 209.46 | 0.103 |
| 276121 | 10991.42 | 0.040 |
| 9600 | 425.39 | 0.044 |
| 144000 | 722.11 | 0.005 |
| 25728 | 2244.62 | 0.009 |
| 41937 | 2992.76 | 0.071 |
| 793888 | 17710.15 | 0.022 |
| 231500 | 590.18 | 0.003 |
| 30100 | 20935.99 | 0.020 |
| 542546 | 19392.54 | 0.040 |
|  |  | 0.036 |
|  |  |  |
|  |  |  |


| FIRST MARATHON SECURITIES LIMITED | 131500 | 5260 | 0.040 |
| :---: | :---: | :---: | :---: |
| FIRST UNION CAPITAL MARKETS | 1005619 | 40544.26 | 0.040 |
| FOX PITT KELTON INC | 450390 | 18776.6 | 0.042 |
| FOX PITT KELTON LONDON | 344405 | 2945.85 | 0.009 |
| FOX-PITT KELTON LTD | 395202 | 1990.6 | 0.005 |
| FRENCH AMERICAN BANKING CORP/RETAIL | 20749195 | 167832.18 | 0.008 |
| FRIEDMAN BILLINGS \& REMSEY | 624458 | 23505.57 | 0.038 |
| GABELLI \& CO INC | 175500 | 10530 | 0.060 |
| GABELLI \& COMPANY | 268963 | 12313.18 | 0.046 |
| GARBAN SECURITIES | 470725 | 9661.98 | 0.021 |
| GOLDMAN SACHS \& CO | 13515186 | 474799.73 | 0.035 |
| GOLDMAN SACHS (ASIA) LLC SEOUL | 615 | 454.43 | 0.739 |
| GOLDMAN SACHS EXECUTION \& CLEARING, L.P. | 8670517 | 291991.99 | 0.034 |
| GOLDMAN SACHS INTERNATIONAL LIMITED | 9900 | 295.79 | 0.030 |
| GOLDMAN SACHS INTL LONDON | 876458 | 12044.79 | 0.014 |
| GOLDMAN SACHS NEW YORK_DTC00005 | 5057608 | 31128.83 | 0.006 |
| GOODBODY STOCKBROKERS DUBLIN | 538416 | 5561.31 | 0.010 |
| GRIFFITHS MCBURNEY \& PTRS TORONTO | 3800 | 141.02 | 0.037 |
| G-TRADE SERVICES LTD, HAMILTON | 21400 | 144.23 | 0.007 |
| GUZMAN \& COMPANY | 895900 | 17918 | 0.020 |
| HARRIS NESBITT CORP | 213400 | 8536 | 0.040 |
| HEFLIN \& CO. LLC | 117000 | 4468 | 0.038 |
| HELVEA SA | 20101 | 1675.11 | 0.083 |
| HIBERNIA SOUTHCOAST CAPITAL INC. | 293649 | 11560.46 | 0.039 |
| HIRSHON ROTH \& CO | 32949796 | 273903.79 | 0.008 |
| HONG KONG SAR GOVERNMENT EXCH.FUND | 28082 | 434.71 | 0.015 |
| HOWARD WEIL LABOUISSE FRIEDRICHS INC | 23500 | 1175 | 0.050 |
| HSBC BANK PLC LONDON. | 1083033 | 10033.68 | 0.009 |
| HSBC BROKERAGE (USA) INC. | 24600 | 861 | 0.035 |
| HSBC SECURITIES BROKERS (ASIA) LTD | 5315765 | 14915.98 | 0.003 |
| HSBC SECURITIES USA | 145628 | 2570.8 | 0.018 |
| ICAP CORPORATES LLC | 5900 | 215 | 0.036 |
| ICAP SECURITIES LTD | 64376 | 1604.91 | 0.025 |
| IMPERIAL CAPITAL LLC | 600 | 30 | 0.050 |
| ING BANK LONDON | 31500 | 593.95 | 0.019 |
| INSTINET | 7511290 | 247098.93 | 0.033 |
| INSTINET CLEARING SERVICES, INC. | 22055 | 661.65 | 0.030 |
| INSTINET EUROPE LTD. | 251501 | 2701.59 | 0.011 |
| INSTINET PACIFIC LTD HONG KONG | 15287 | 1197.1 | 0.078 |
| INTERMONTE SECURITIES SIM MILANO | 8293 | 424.57 | 0.051 |
| INVESTMENT TECHNOLOGY GROUP DUBLIN | 113276 | 1598.95 | 0.014 |
| INVESTMENT TECHNOLOGY GROUP INC | 6040639 | 102962.79 | 0.017 |
| ISI GROUP INC. | 1505878 | 54388.11 | 0.036 |
| ITG CANADA CORP TORONTO | 2800 | 45.04 | 0.016 |
| ITG INC | 5900 | 103.25 | 0.018 |
| IXIS SECURITIES | 2800 | 194.02 | 0.069 |
| J. P. MORGAN SECURITIES INC | 16835000 | 8417.5 | 0.001 |
| J.P. MORGAN SECURITIES INC., - FIXED | 24199553.57 | 15906.83 | 0.001 |
| J.P. MORGAN SECURITIES LIMITED | 3802292 | 48952.43 | 0.013 |
| J.P.MORGAN SECURITIES (FAR EAST) LT | 9755 | 864.14 | 0.089 |
| JANNEY MONTGOMERY SCOTT | 86800 | 4244 | 0.049 |
| JB WERE \& SONS MELBOURNE | 168890 | 1744.25 | 0.010 |


| JEFFERIES \& COMPANY INC | 5697336 | 180341.21 | 0.032 |
| :---: | :---: | :---: | :---: |
| JEFFERIES \& COMPANY INC NY DTC07441 | 975395 | 3657.21 | 0.004 |
| JEFFERIES INTERNATIONAL LONDON | 10200 | 466.39 | 0.046 |
| JMP SECURITIES | 254785 | 10191.4 | 0.040 |
| JNK SECURITIES INC | 208900 | 4178 | 0.020 |
| JOHNSON RICE \& CO | 1838284 | 59958.36 | 0.033 |
| JONES TRADING INSTITUTIONAL SERVICES | 14792287 | 376855.15 | 0.025 |
| JP MORGAN CHASE BANK LONDON | 1035045 | 3926.83 | 0.004 |
| JP MORGAN SECURITIES AUSTRALIA | 9412 | 100.83 | 0.011 |
| JP MORGAN SECURITIES INC | 10748934 | 235917.52 | 0.022 |
| JP MORGAN SECURITIES INC SL | 33300 | 1688.47 | 0.051 |
| JPMORGAN CAZENOVE LIMITED | 34887 | 1008.91 | 0.029 |
| JPMORGAN CHASE BANK GS AND T | 1600 | 42.06 | 0.026 |
| JPMORGAN CHASE BANK_DTC00902 | 11515 | 53679.07 | 4.662 |
| JPMORGAN CLEARING CORP | 11800 | 236 | 0.020 |
| JPMORGAN SECS INC, NY DTC05202 | 109400 | 638.79 | 0.006 |
| JPMORGAN SECS INC, NY DTC060 | 160900 | 763.83 | 0.005 |
| JPMORGAN SECS LONDON | 385492 | 4398.98 | 0.011 |
| JPMORGAN SECURITIES (ASIA PACIFIC) | 5573373 | 10898.37 | 0.002 |
| JULIUS BAER BROKERAGE FRANKFURT | 55660 | 2806.38 | 0.050 |
| JULIUS BAER BROKERAGE ZURICH BRANCH | 15752 | 540.18 | 0.034 |
| KBC FINANCIAL PRODUCTS UK LTD | 81499 | 3475.59 | 0.043 |
| KEEFE BRUYETTE \& WOODS INC | 509471 | 20786.84 | 0.041 |
| KEEFE BRUYEYTTE AND WOOD LTD LONDON | 11960 | 299.89 | 0.025 |
| KELCOP FINANCIAL INC | 41100 | 1582 | 0.038 |
| KELLOGG PARTNERS | 10180 | 407.2 | 0.040 |
| KELLY \& CHRISTENSEN INC. | 114700 | 1147 | 0.010 |
| KEPLER EQUITIES, PARIS | 6380 | 369.55 | 0.058 |
| KEYBANC CAPITAL MARKETS INC. | 703700 | 29507.5 | 0.042 |
| KING C L \& ASSOCIATES INC | 135600 | 5729 | 0.042 |
| KNIGHT SECURITIES BROADCORT CAP | 30259822.33 | 966652.41 | 0.032 |
| LABRANCHE FINANCIAL SERVICES LLC | 158100 | 4315 | 0.027 |
| LAZARD CAPITAL MARKETS LLC | 516662 | 5180.11 | 0.010 |
| LAZARD FRERES \& CO | 43400 | 2114 | 0.049 |
| LBI-LEHMAN GOVERNMENT SECURITIES INC | 25 | 125 | 5.000 |
| LEERINK SWANN AND COMPANY | 635106 | 30889.74 | 0.049 |
| LEHMAN BROS INC | 2010536 | 53531.44 | 0.027 |
| LEHMAN BROS INTL LONDON. | 92502 | 4055.88 | 0.044 |
| LEHMAN BROTHERS INTL(EUROPE), SEOUL | 1329 | 518.4 | 0.390 |
| LIQUIDNET ASIA LIMITED, HONG KONG | 155958 | 1003.82 | 0.006 |
| LIQUIDNET EUROPE LTD LONDON | 988810 | 8969 | 0.009 |
| LIQUIDNET INC | 4408363 | 108207.72 | 0.025 |
| LONGBOW SECURITIES LLC | 405010 | 17285.4 | 0.043 |
| LOOP CAPITAL MKTS,LLC-BCC CAP CLEAR | 107100 | 1458 | 0.014 |
| LYNCH JONES \& RYAN (JEFFERIES) | 7285226 | 276502.99 | 0.038 |
| MACQUARIE EQUITIES SYDNEY | 100678 | 4785.02 | 0.048 |
| MACQUARIE SECURITIES (USA) INC | 70307 | 2812.28 | 0.040 |
| MACQUARIE SECURITIES LIMITED | 1934910 | 12398.93 | 0.006 |
| MACQUARIE SECURITIES LIMITED,TAIWAN | 434000 | 439.28 | 0.001 |
| MACQUARIE SECURITIES LTD SEOUL | 2248 | 1504.27 | 0.669 |
| MAIN FIRST BANK | 5000 | 335.73 | 0.067 |
| MAN FINANCIAL | 425618 | 7713.43 | 0.018 |

MCDONALD INVESTMENTS INC.
MEMO
MERRILL LYNCH \& CO INC NY
MERRILL LYNCH AND CO INC NEW YORK
MERRILL LYNCH INTERNATIONAL,LDN.
MERRILL LYNCH INTERNATIONAL_LONDON
MERRILL LYNCH PROF. CLEARING CORP.
MERRILL LYNCH, P F \& S NY DTC00161
MERRILL LYNCH,PIERCE,FENNER \& SMITH MIDWEST RESEARCH SECURITIES
MILLER TABAK \& CO LLC
MILLER, TABAK, HIRSCH \& COMPANY MITSUBISHI UFJ SECURITIES (USA),
MIZUHO SECURITIES INC
MKM PARTNERS
MONNESS, CRESPI, HARDT \& CO INC
MORGAN KEEGAN \& CO INC
MORGAN STANLEY \& CO. INCORPORATED
MORGAN STANLEY AND CO INC DTC00050
MORGAN STANLEY INTL SEOUL
MS \& CO INTL LONDON
MS\&CO INC NY DTC00050
MURPHY \& DURIEU
NATIONAL FINL SVCS CORP
NBC CLEARING SERVICES INC
NCB STOCKBROKERS LIMITED
NEEDHAM \& COMPANY
NESBITT BURNS TORONTO
NEXT GENERATION EQUITY RESEARCH LLC NOMURA INTERNATIONAL PLC
NOMURA INTL (HONG KONG) LTD
NOMURA SECS INTL NEW YORK DTC00180
NORDEA BANK DENMARK A/S COPENHAGEN
NUMIS SECURITIES, LONDON
O'CONNOR \& CO LLC RETAIL
ODDO ET CIE PARIS
ONEIL WILLIAM \& CO INC/BCC CLRG OPPENHEIM SAL JR UND CIE KOELN
OPPENHEIMER \& CO INC
OPPENHEIMER \& CO. INC.
PACIFIC CREST SECURITIES
PALI CAPITAL INC.
PAREL PARIS
PCS SECURITIES, INC
PELLINOR SECURITIES CORP
PENSION FINANCIAL SVCS, INC
PERSHING LLC
PERSHING LLC DTC00443
PERSHING SECURITIES LIMITED PETERS \& CO CALGARY CANADA PICKERING ENERGY PARTNERS, INC PIPELINE TRADING SYSTEMS LLC

| 200176 | 7020.54 | 0.035 |
| :---: | :---: | :---: |
| 372 | 1322.6 | 3.555 |
| 467300 | 4916.16 | 0.011 |
| 29652 | 1121.16 | 0.038 |
| 2557192 | 43061.19 | 0.017 |
| 5510 | 211.38 | 0.038 |
| 651697 | 20271.43 | 0.031 |
| 5829045 | 22538.11 | 0.004 |
| 3832730 | 135342.38 | 0.035 |
| 2433094 | 35880.04 | 0.015 |
| 18500 | 740 | 0.040 |
| 42154 | 1686.16 | 0.040 |
| 169800 | 931.97 | 0.005 |
| 375213 | 2828.76 | 0.008 |
| 32100 | 1538 | 0.048 |
| 75000 | 3750 | 0.050 |
| 2230971 | 73277.79 | 0.033 |
| 5011548 | 145950.84 | 0.029 |
| 2519585 | 6789.44 | 0.003 |
| 9236 | 3576.41 | 0.387 |
| 1676514 | 22214.89 | 0.013 |
| 4565141 | 65471.91 | 0.014 |
| 274400 | 6174 | 0.023 |
| 223600 | 10649 | 0.048 |
| 32200 | 1238.8 | 0.038 |
| 213800 | 1562.55 | 0.007 |
| 530000 | 24986.55 | 0.047 |
| 281600 | 11109.42 | 0.039 |
| 41060 | 1642.4 | 0.040 |
| 1517 | 26.19 | 0.017 |
| 82000 | 330.19 | 0.004 |
| 1744026 | 23472.67 | 0.013 |
| 6713 | 299.56 | 0.045 |
| 15300 | 290.22 | 0.019 |
| 98300 | 1977.5 | 0.020 |
| 6438 | 845.45 | 0.131 |
| 679600 | 15825 | 0.023 |
| 5500 | 357.12 | 0.065 |
| 332300 | 12170 | 0.037 |
| 571660 | 22394.9 | 0.039 |
| 197400 | 7174 | 0.036 |
| 191323 | 7652.92 | 0.040 |
| 4100 | 131.69 | 0.032 |
| 25500 | 1275 | 0.050 |
| 661098 | 19947.94 | 0.030 |
| 102900 | 1002.75 | 0.010 |
| 1392843 | 29516.03 | 0.021 |
| 880762 | 8338.81 | 0.009 |
| 128936 | 4712.6 | 0.037 |
| 31500 | 1378.48 | 0.044 |
| 148300 | 5157 | 0.035 |
| 244603 | 4803.56 | 0.020 |

PIPER JAFFRAY \& CO.
POLCARI / WEICKER DIV OF ICAP PRITCHARD CAPITAL PARTNERS LLC PULSE TRADING LLC Q \& R CLEARING CORP RAYMOND JAMES \& ASSOCIATES INC RBC DAIN RAUSCHER INC.
RBCT: RBC TORONTO
REDBURN PARTNERS LLP, LONDON
REICH \& CO INC
RIDGE CLEARING \& OUTSOURCING
RIDGE CLEARING \& OUTSOURCING SOLUTIONS
ROBERT W BAIRD \& CO
ROSENBLATT SECURITIES LLC
ROTH CAPITAL PARTNERS, LLC
SAMSUNG SECURITIES
SANDLER O'NEILL \& PARTNERS LP SANFORD C BERNSTEIN LTD LONDON SANFORD C. BERNSTEIN \& CO.INC. SANTANDER CENT HISPANO INVTM,MADRID SANTANDER CENTRAL HISPANO BOLSA MAD SANTANDER INVESTMENT SECURITIES INC SCOTIA CAPITAL (USA) INC SCOTIA MCLEOD NEW YORK SCOTT \& STRINGFELLOW INC SEB (ENSKILDA SECURITIES), LONDON SESLIA SECURITIES
SG AMERICAS SECURITIES, LLC
SG COWEN SECURITIES CORP.
SIDOTI \& CO LLC
SIDOTI \& COMPANY, LLC
SIMMONS \& CO INTERNATIONAL
SJ LEVINSON \& SONS LLC
SOCIETE GENERALE LONDON BRANCH
SOCIETE GENERALE ZURICH BRANCH
SOLEIL SECURITIES CORP
standard chartered bank hong kong STANFORD GROUP COMPANY
STATE STREET BANK AND TRUST COMPANY
STATE STREET BK \& TRUST DTC00997
STATE STREET BROKERAGE SVCS INC
STATE STREET GLOBAL ADVISORS BOSTON STEPHENS INC (CUST)
STERNE AGEE \& LEACH INC
STIFEL NICOLAUS \& CO INC
SUNTRUST CAPITAL MARKETS INC
TD WATERHOUSE INVESTOR SERVICES INC.
THE SHEMANO GROUP/IPO TRACKING
THEMIS TRADING LLC
THOMAS WEISEL PARTNERS LLC TORONTO DOMINION SECS TORONTO TRISTONE CAPITAL USA INC

| 216976 | 8788.04 | 0.041 |
| ---: | ---: | ---: |
| 67800 | 2712 | 0.040 |
| 802600 | 26955 | 0.034 |
| 2681042 | 57010.66 | 0.021 |
| 64410 | 579.69 | 0.009 |
| 1001828 | 40499.32 | 0.040 |
| 1060997 | 36479.38 | 0.034 |
| 338000 | 0 | 0.000 |
| 322160 | 8734.05 | 0.027 |
| 58300 | 1940.5 | 0.033 |
| 43600 | 1744 | 0.040 |
| 91700 | 4585 | 0.050 |
| 1266900 | 54049 | 0.043 |
| 523100 | 10462 | 0.020 |
| 32200 | 966 | 0.030 |
| 5155 | 1102.39 | 0.214 |
| 321184 | 12775.36 | 0.040 |
| 1370357 | 15260.79 | 0.011 |
| 2442043 | 75971.59 | 0.031 |
| 4110 | 472.04 | 0.115 |
| 29716 | 880.41 | 0.030 |
| 27200 | 952 | 0.035 |
| 25700 | 989.5 | 0.039 |
| 66400 | 2577.64 | 0.039 |
| 121400 | 5075 | 0.042 |
| 74204 | 466.85 | 0.006 |
| 34300 | 514.5 | 0.015 |
| 170400 | 1704 | 0.010 |
| 197650 | 1976.5 | 0.010 |
| 145823 | 5832.92 | 0.040 |
| 229300 | 9451 | 0.041 |
| 206122 | 9396.88 | 0.046 |
| 4600 | 184 | 0.040 |
| 670152 | 25412.16 | 0.038 |
| 23137 | 693.68 | 0.030 |
| 134200 | 5368 | 0.040 |
| 103000 | 387.7 | 0.004 |
| 81500 | 3371 | 0.041 |
| 18578784 | 82623.82 | 0.004 |
| 1185 | 97.91 | 0.083 |
| 64300 | 1786 | 0.028 |
| 374757 | 4199.61 | 0.011 |
| 275360 | 10739.8 | 0.039 |
| 330252 | 10828.13 | 0.033 |
| 1612461 | 60117.33 | 0.037 |
| 339300 | 12694 | 0.037 |
| 2200 | 44 | 0.020 |
| 547200 | 11454 | 0.021 |
| 943600 | 39840 | 0.020 |
| 191000 | 26169.4 | 0.028 |
| 12700 | 7425.56 | 0.039 |
|  | 508 | 0.040 |
|  |  |  |


| U.S. BANCORP PIPER JAFFRAY INC. | 551200 | 19723.5 | 0.036 |
| :--- | ---: | ---: | ---: |
| UBS AG (LONDON EQUITIES), LONDON | 2877249 | 52449.27 | 0.018 |
| UBS AG STAMFORD,CT | 234100 | 4532.4 | 0.019 |
| UBS PAINE WEBBER INC. | 332245 | 13837 | 0.042 |
| UBS SECURITIES ASIA LTD | 1222841 | 13015.56 | 0.047 |
| UBS SECURITIES AUSTRALIA LTD | 15985 | 749.89 | 0.009 |
| UBS WARBURG ASIA LTD | 419828 | 3984.68 | 0.014 |
| UBS WARBURG LLC | 10925594 | 152554.42 | 1.035 |
| UBS WARBURG LLC, STAMFORD, CT | 3800 | 134.6 | 0.005 |
| UBS WARBURG SECURITIES LTD SEOUL | 1170 | 1344.48 | 0.040 |
| UBS WARBURG SECURITIES TAIWAN | 153000 | 827.06 | 0.015 |
| W. J. BONFANTI, INC | 37890 | 1515.6 | 0.010 |
| WACHOVIA SECURITIES, LLC. | 50500 | 757.5 | 0.044 |
| WAVE SECURITIES | 336700 | 3367 | 0.014 |
| WEDBUSH MORGAN SECS INC NSCC | 1215286 | 53420.44 | 0.040 |
| WEEDEN AND CO | 9850135 | 142772.9 | 0.019 |
| WESTMINSTER RESEARCH ASSOCIATES, INC | 55800 | 2232 | 0.029 |
| WHITE CAP TRADING LLC | 37100 | 717 | 0.036 |
| WIEN SECURITIES CORP | 92100 | 2713 | 0.039 |
| WILLIAM BLAIR \& COMPANY | 1741719 | 63243.4 | 0.010 |
| WILLIAMS CAPITAL GROUP LP | 439757 | 17144.38 | $\mathbf{0 . 0 1 8}$ |
| YAMNER \& COMPANY, INC | 2016350 | 20163.5 |  |
| Grand Total |  | $\$ 8,694,898.96$ | $\$$ |
| Less: Commission Recapture |  | $\mathbf{0 . 0 1 6}$ |  |
| Adj. Commissions Per Share |  |  | $\mathbf{\$ 7 9 7 , 3 4 1 . 0 6 )}$ |

## Summary of Investments

## June 30, 2010

|  | Percentage <br> of Total |  |
| :---: | :---: | :---: |
| Type of Investment | Fair Value | $\underline{\text { Fair Value }}$ |

Fixed Income:
U S Government Securities ..... \$1,707,962,910 ..... 18.7\%
Corporate Bonds ..... 952,772,55910.5\%
International Bonds ..... 159,133,690 ..... 1.7\%
Total Fixed Income 2,819,869,159 ..... 30.9\%
Equities:
Domestic4,381,924,10648.1\%
International1,472,723,73516.1\%
Total Equities 5,854,647,841 ..... 64.2\%
Short-Term Investments:
Domestic Money Market
International Money Market/Treasury Bills399,852,4374.4\%
Total Short-Term Investments 441,182,511 ..... 4.9\%41,330,0740.5\%Total Investments\$9,115,699,511100.0\%

Comparative Rates of Return Fiscal Year 2010


Comparative Rates of Return Fiscal Year 2009


Comparative Rates of Return Fiscal Year 2008


## Investment Managers

The Board of Trustees has hired the following investment management firms to manage the assets of the System. The investment managers have full discretion in the management of assets in their portfolios, subject to individual investment styles and the overall guidelines of the System's Investment Policy. Firms employed by the Board of Trustees on June 30, 2010 are listed below:
Funds Under Management (in millions)
Advisory Research, Inc All Capitalization ..... \$216
Aldus Private EquityPrivate Equity9
Aronson+Johnson+Ortiz Partners, LP Middle Capitalization Core ..... 211
Brandes Investment Partners, LP International Equity ..... 371
Capital Guardian Trust Company International Equity ..... 286
Causeway Capital Management, LLC International Equity ..... 209
Chase Investment Counsel Corporation Large Capitalization Growth ..... 280
EPOCH Investment Partners, Inc All Capitalization ..... 286
Frontier Capital Management Company, LLC Middle Capitalization Growth ..... 265
Goldman Sachs Asset Management Large Capitalization Growth ..... 274
Hoisington Investment Management Fixed Income ..... 345
Hotchkis and Wiley Capital Management, LLC Large Capitalization Value ..... 211
Hotchkis and Wiley Capital Management, LLC Middle Capitalization Value ..... 191
Internal Cash Account ..... 96
Loomis, Sayles \& Company, LP Core Plus Fixed Income ..... 620
Lord Abbett \& Company, LLC Core Plus Fixed Income ..... 841
McKay Shields, LLC Core Plus Fixed Income ..... 553
Pacific Investment Management Company Core Plus Fixed Income ..... 646
Sawgrass Asset Management, LLC Large Capitalization Growth ..... 279
Shapiro Capital Management Company, Inc Small Capitalization Value ..... 290
Stephens Capital Management, Inc Interest Rate Sensitive Fixed Income ..... 231
Thornburg Investment Management, Inc International Equity ..... 201
Tocqueville Asset Management, LP Small Capitalization Value ..... 322
Wellington Management Company, LLP Middle Capitalization Growth ..... $\underline{211}$
Total funds under management ..... \$7,444

Chart on following page.

Assets Managed (In Millions)


Rates of Return

| Periods Ended June 30 | One Year | Three Years | Five Years |
| :--- | :---: | :---: | :---: |
| Domestic Equity | $18.4 \%$ | $-8.8 \%$ | $0.4 \%$ |
| S\&P 500 | $14.4 \%$ | $-9.8 \%$ | $-0.8 \%$ |
| Rank** | $13^{*}$ | 24 | 51 |
| International Equity | $10.0 \%$ | $-10.7 \%$ | $2.8 \%$ |
| MSCI EAFE | $6.4 \%$ | $-12.9 \%$ | $1.4 \%$ |
| Rank** | 44 | 55 | 62 |
| Fixed Income | $13.1 \%$ | $9.3 \%$ | $6.7 \%$ |
| Lehman Aggregate | $9.5 \%$ | $7.5 \%$ | $5.5 \%$ |
| Rank** | 41 | 17 | 22 |
| Total Fund | $16.6 \%$ | $-3.1 \%$ | $3.4 \%$ |
| Benchmark*** | $14.2 \%$ | $-4.5 \%$ | $2.3 \%$ |
| Rank** | 11 | 46 | 35 |

* Rank 1 is best, 100 worst
** Source of Rankings - TUCS
*** Benchmark - 28\% S\&P 500, 15\% Russell Mid Cap, 10\% Russell 2000, 17\% MSCI EAFE, 30\% Barclays Capital Aggregate


## Section Four: Acłuarial

## Comprehensive Annual Financial Report

Fiscal Year Ended June 30, 201

Oklahoma Teachers Retirement System


## Mission Action Plan

Point Four: Pursue pro-active solutions and innovation
OKLAHOMA TEACHERS


December 1, 2010

Board of Trustees
Teachers' Retirement System of Oklahoma
Oliver Hodge Education Building
2500 N. Lincoln Boulevard, $5{ }^{\text {th }}$ Floor
Oklahoma City, Oklahoma 73105
Dear Members of the Board:

## Subject: Actuarial Valuation as of June 30, 2010

We certify that the information contained in this report is accurate and fairly presents the actuarial position of the Teachers' Retirement System of Oklahoma (the System) as of June 30, 2010.

All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, the results presented comply with the requirements of the Oklahoma statutes and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board. The undersigned are independent actuaries. They are Enrolled Actuaries and Members of the American Academy of Actuaries, and they are experienced in performing valuations for large public retirement systems. They meet the Qualification Standards of the American Academy of Actuaries.

## Actuarial Valuation

The primary purposes of the valuation report are to determine the adequacy of the current employer contribution rate, to describe the current financial condition of the System, and to analyze changes in the System's condition. In addition, the report provides information required by the System in connection with Governmental Accounting Standards Board Statement No. 25 (GASB 25), and it provides various summaries of the data.

Valuations are prepared annually, as of June 30 of each year, the last day of the System's plan and fiscal year.

Board of Trustees
December 1, 2010
Page 2

## Financing Objectives

The member, employer, State, and "federal matching" contribution rates are established by law. Members contribute $7.00 \%$ of covered compensation. The fiscal year 2010 contribution rates for employers covered by the Education Employees Service Incentive Plan (EESIP) were $9.00 \%$ as of July 1, 2009 and $9.50 \%$ effective January 1, 2010. For employers not covered by the EESIP-the comprehensive and regional four-year universities - the contribution rate for FY 2010 was $8.05 \%$ through December 31, 2009 and increased to $8.55 \%$ on January 1, 2010. No further employer contribution rate increases are currently scheduled. There is also an additional contribution, the Initial Funding Surcharge, made by the comprehensive universities which is equal to $2.50 \%$ of the payroll for those employees who elect to join the Alternate Retirement Plan in lieu of joining the System. This contribution will continue through FY 2034 or until June 30 of the year in which the unfunded actuarial accrued liability of the participating institutions is reduced to zero, if earlier. In addition, the State of Oklahoma contributes a percentage of its revenues from sales taxes, use taxes, corporate income taxes, and individual income taxes to the System. This percentage is currently $5.00 \%$. No increases are scheduled in this rate. Additionally, the System receives "federal matching" contributions for positions whose funding comes from federal sources or certain grants. The federal matching contribution rate for FY 2010 was $7.50 \%$ and will decrease to $6.50 \%$ for FY 2011. This federal matching rate is intended to approximate the contribution from the State of Oklahoma measured as a percentage of "State" payroll, i.e., payroll excluding that paid from federal or grant sources.

The State's contribution in FY 2011, based on information presented to the State's Equalization Board, is projected to be $\$ 225$ million. Based on this, we project that in the fiscal year ending June 30, 2011, the State's contribution plus the federal contribution will be equivalent to a contribution of approximately $6.1 \%$ of covered payroll. The employer contribution- $9.50 \%$ for most employers and $8.55 \%$ for the comprehensive and regional universities-is projected to average about $9.3 \%$ of payroll, so on a combined basis, the employing entities are expected to contribute $15.4 \%$ of covered payroll for FY 2011.

The State, local and federal contributions, when combined with the contributions made by members, are intended to pay for the normal cost and to amortize the unfunded actuarial accrued liability (UAAL).

## Progress toward Realization of Financing Objectives

The unfunded actuarial accrued liability (UAAL) as of June 30, 2009 was \$9,512 million, and it increased to $\$ 10,414$ million this year. As a result, the funded ratio - actuarial value of assets divided by the actuarial accrued liability - decreased from $49.8 \%$ to $47.9 \%$.

The period required to completely amortize the UAAL based on the contribution schedule is the funding period. Based upon the current contribution schedule, the statutory contribution amounts are insufficient to amortize the UAAL. This is shown as an "infinite" funding period in the Exhibits contained in our report. As of the June 30, 2010 the funding period remains

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"infinite". Although the FY2010 return on a market value basis was significantly higher than the assumed $8 \%$, the continuing recognition of prior market losses will continue to present a strong headwind over the next three (3) years on the actuarial rate of return (a five-year smoothed average of the market value returns.) The increase in the UAAL and resulting continuation of an infinite funding period is principally due to the recognition of recent prior market asset losses and the change of assumptions effective in this valuation. These added approximately $\$ 594$ million and $\$ 358$ million respectively to the UAAL. These increases were partially offset by favorable experience resulting primarily from salary increases less than expected and a $2 \%$ COLA not being granted.

Based on the current contribution schedule, assuming no actuarial gains in the future, the UAAL is expected to continue increasing from the current level. The current contribution schedule results in contributions insufficient to cover the interest on the current UAAL plus the normal cost resulting in negative amortization.

## Deferred Asset Losses/Gains

The UAAL and the funded ratio cited above are based on actuarial calculations that make use of the actuarial value of assets, not the market value. The actuarial value of assets is based upon the market value, but asset gains and losses - earnings greater or less than the $8.00 \%$ annual investment return assumption - are recognized at a rate of $20 \%$ per year for five (5) years. The current actuarial value of $\$ 9,567$ million is $\$ 1,215$ million larger than the market value of $\$ 8,352$ million. The actuarial value of assets is now $114.5 \%$ of the market value. The funded ratio determined using the market value of assets rather than the actuarial value is $41.8 \%$.

## Benefit Provisions

Our actuarial valuation as of June 30, 2010 reflects the benefit and contribution provisions set forth in current statutes, and there have been no changes that impact the liabilities or costs of the System since the prior valuation.

## Actuarial Assumptions and Methods

Assumptions are set by the Board of Trustees, taking into account the recommendations of the System's actuary. The System has an experience study done every fifth year. The actuarial assumptions used in this valuation are based upon the 2009 Experience Study Report dated September 15, 2010 measuring the experience investigation period FY2005 - FY2009. The assumptions were adopted by the Board in September 2010 and first used in this valuation.

We believe the assumptions are internally consistent and are reasonable, based on the actual experience of the System.

The results of the actuarial valuation are dependent upon the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates and funding periods.

Finally, the Retirement Board is required to submit actuarial information about the System to the Oklahoma State Pension Commission. The required information is based on a prescribed set of actuarial assumptions which is different from the assumption set used in preparing the actuarial valuation. This information appears as an addendum to this report in Appendix IV.

## DATA

Member data for retired, active, and inactive participants was supplied as of June 30, 2010 by the System's staff. We have not subjected this data to any auditing procedures, but have examined the data for reasonableness and consistency with the prior year's data. Asset information as of June 30, 2010 was supplied by the auditors and by the System's staff.

## ATTACHED SCHEDULES

We prepared all of the schedules and exhibits in this section except for the Schedule of Increases and Decreases of Benefit Recipients which was prepared by the System's staff. We have also prepared the Schedule of Funding Progress and the Schedule of Employer Contributions in the Financial Section. We have prepared the annual actuarial valuations each year, beginning with the one prepared as of June 30, 1989. Information related to earlier actuarial valuations was prepared by the previous actuary for the System.

We wish to thank the System's Executive Director, his staff, and the System's financial auditors for their assistance in the preparation of our report.

Respectfully submitted,

## Gabriel, Roeder, Smith \& Company


J. Christian Conradi, ASA, MAAA, EA

Senior Consultant


Mark R. Randall, FCA, MAAA, EA
Executive Vice President

## Executive Summary

| Item | 2010 | 2009 |
| :---: | :---: | :---: |
| Membership <br> - Number of <br> - Active members <br> - Retirees and beneficiaries <br> - Inactive, vested <br> - Inactive, nonvested <br> - Total <br> - Payroll | 89,896 <br> 48,756 <br> 7,439 <br> 7,206 <br> 153,297 <br> $\$ 3,855$ million | 89,388 <br> 46,796 <br> 7,379 <br> 7,542 <br> 151,105 <br> $\$ 3,808$ million |
| Statutory contribution rates <br> - Employers in EESIP <br> - Regional universities <br> - Federal/grant salaries <br> - Members <br> - $\quad$ State (\% of tax revenues) | $\begin{array}{r} \text { FY } 2011 \\ 9.50 \% \\ 8.55 \% \\ 6.50 \% \\ 7.00 \% \\ 5.00 \% \end{array}$ | $\begin{gathered} \text { FY } 2010 \\ 9.00 \% / 9.50 \% ~ * \\ 8.05 \% / 8.55 \% ~ * \\ 7.50 \% \\ 7.00 \% \\ 5.00 \% \end{gathered}$ |
| Assets <br> - Market value <br> - Actuarial value <br> - Return on market value <br> - Return on actuarial value <br> - State/local/federal contributions <br> - External cash flow \% <br> - Ratio of actuarial to market value | $\begin{array}{r} \$ 8,352 \text { million } \\ \$ 9,567 \text { million } \\ 16.1 \% \\ 1.7 \% \\ \$ 621 \text { million } \\ -0.4 \% \\ 114.5 \% \end{array}$ | $\begin{array}{r} \$ 7,227 \text { million } \\ \$ 9,439 \text { million } \\ -16.2 \% \\ 2.0 \% \\ \$ 619 \text { million } \\ -0.1 \% \\ 130.6 \% \end{array}$ |
| Actuarial Information <br> - Normal cost \% <br> - Unfunded actuarial accrued liability (UAAL) <br> - Funded ratio <br> - Funding period (years) | $\begin{array}{r} 11.83 \% \\ \text { \$ 10,414 million } \\ 47.9 \% \\ \text { Infinite } \end{array}$ | $\begin{array}{r} 11.25 \% \\ \text { \$ 9,512 million } \\ 49.8 \% \\ \text { Infinite } \end{array}$ |
| GASB 25 ARC (30 year, level \%) <br> - Dollar amount <br> - Percent of pay | $\begin{array}{r} \text { FY } 2011 \\ \$ 822,419,996 \\ 20.35 \% \end{array}$ | $\begin{gathered} \text { FY } 2010 \\ \$ 742,286,289 \\ 18.62 \% \end{gathered}$ |
| Gains/(losses) <br> - Asset experience <br> - Liability experience <br> - Benefit changes <br> - Assumption Changes <br> - Total | $\begin{array}{r} (\$ 593) \text { million } \\ 160 \text { million } \\ 169 \text { million } \\ (358) \text { million } \\ \hline(\$ 622) \text { million } \end{array}$ | ( $\$ 557$ ) million <br> 224 million <br> 155 million <br> 0 million <br> $(\$ 178)$ million |

* First rate shown is effective for July-December, second rate shown is effective for January-June


## Funded Status

Because the employer contribution rates are set by statute, this report determines the funding period required to amortize the Unfunded Actuarial Accrued Liability (UAAL).

The UAAL increased by $\$ 902$ million, from $\$ 9.512$ billion to $\$ 10.414$ billion as of June 30, 2010. The funded ratio - the ratio of the actuarial value of assets to the actuarial accrued liability decreased from $49.8 \%$ to $47.9 \%$ as of June 30,2010 . The funding period - the number of years that would be required under the current contribution schedule to amortize the UAAL - remains in a situation in which the statutory contribution rates are projected to be insufficient to amortize the UAAL, shown as an infinite" funding period in the Exhibits contained in our report. As a result, we project that the System will be unable to reach an $80 \%$ funded status, assuming no further changes in benefits or contribution rates and assuming no future actuarial gains.

These effects are primarily due to a significant actuarial value of asset loss during the plan year due to the continued recognition of prior years' asset losses on a market basis as well as the change in assumptions effective in this valuation. These increases were partially offset by positive experience resulting from salary increases that were smaller than expected and the lack of a $2 \%$ COLA being granted for current retirees. As discussed in Section E of our report, the asset loss will continue to hinder the funded status of the System as the known asset losses on a market value basis are fully recognized over the next three (3) years.

The Oklahoma Teachers Retirement System remains among the most poorly funded of all statewide plans. The actuarial value of assets only covers approximately $94 \%$ of the liabilities for currently retired members. Despite the last of the scheduled increases in contribution rates which were effective January 1, 2010, future contributions are never projected to reach the GASB 25 Annual Required Contribution (the benchmark contribution amount). Historically, actual contributions to the System have consistently been at a level below the Annual Required Contribution adding to the \#nderfunded" status of the System.

The current combined state/local/federal contribution for FY 2010 is not sufficient to pay the normal cost and pay the interest on the UAAL, so negative amortization is occurring. Measured as of June 30,2010 , this is expected to continue indefinitely.

As previously mentioned, this report also determines the GASB Annual Required Contribution (ARC). This is the contribution required to fund the normal cost and to amortize the UAAL as a
level percentage of payroll over 30 years. This amount is $20.35 \%$ of projected active member payroll as shown in Table 1, compared to $18.62 \%$ last year. Our projections show that the ARC is expected to increase quickly over the next three (3) years as known asset losses are recognized and then continue to increase at a slower but steady pace indefinitely as the System's funded status diminishes further due to continued negative amortization.

## Analysis of Changes

## Unfunded Actuarial Accrued Liability (UAAL)

Table 12a of our report shows an analysis of the change in the UAAL. The UAAL, which was $\$ 9,512.0$ million last year, has increased to $\$ 10,414.0$ million this year.

The increase in the UAAL was primarily due to a $\$ 594$ million asset loss and the change in assumptions effective in this valuation that added $\$ 358$ million. These losses were partially offset by a $\$ 169$ million gain due to the current retirees not receiving an ad hoc cost-of-living adjustment (COLA) effective July 1, 2010. In the valuation, it is assumed that retirees will receive a $2 \%$ COLA per annum. Each year in which the COLA is not granted, the System will experience an actuarial gain. There was also a $\$ 160$ million liability gain related to other deviations from our assumptions. This gain was driven primarily by salary increases that were less than assumed, and it excludes the effect of the COLA assumption described above.

The rest of the change in the UAAL since the last valuation is due to the negative amortization that occurs because the statutory contribution amounts are not sufficient to reduce the UAAL.

## Funding Period

As noted in Table 1 under Section K of our report, the funding period (the period required to amortize the UAAL) remains in a situation where the statutory contribution level is insufficient to amortize the UAAL. Recognition of past asset losses on a market basis and the change in assumptions more than offset the liability gains seen during the year.

The funding period shown in Table 1 of our report, and the projection of the UAAL shown in Table 13, are based upon a deterministic projection that phases in the difference between the actuarial and market values of assets. This projection assumes: (a) future market earnings, net of expenses, will equal $8.00 \%$ per year, (b) there will be no liability gains/losses or changes in assumptions, (c) the number of active members will remain unchanged, (d) active members who leave employment will be replaced by new entrants each year, (e) the State's contribution for FY 2011 will be $\$ 225$ million as projected by the Office of State Finance (OSF), and (f) future state revenues will increase at $3.5 \%$ per year.

## Actuarial Assumptions and Methods

Appendix III of our report summarizes the actuarial assumptions used to determine the System's liabilities and the actuarial methods used to determine the normal cost, UAAL and funding period. Actuarial assumptions were changed this year, when the Board adopted changes recommended by the actuary, based on a review of System experience for the five-year period ending June 30, 2009. The changes made are summarized in section D .

## Development of Employer Cost

1. Payroll
a. Supplied by system
b. Adjusted for one year's pay increase
2. Present value of future pay (paid monthly)
3. Normal cost rate (payable monthly)
a. Total normal cost rate
b. Less: member rate
c. Employer normal cost rate
4. Actuarial accrued liability for active members
a. Present value of future benefits for active members
b. Less: present value of future employer normal costs (Item 3c* Item 2)
c. Less: present value of future member contributions
d. Actuarial accrued liability
5. Total actuarial accrued liability for:
a. Retirees and beneficiaries
b. Inactive members
c. Active members (Item 4d)
d. Total
6. Actuarial value of assets
7. Unfunded actuarial accrued liability (UAAL) (Item 5d - Item 6)
8. Funding period based on statutory contribution rates
9. GASB 25 ARC

| a. Employer normal cost (Item 1 b * 3c) | \$ | 195,190,852 | \$ | 171,460,939 | \$ | 169,383,238 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| b. Level \% 30-year amortization of UAAL (payable monthly) |  | 627,229,144 |  | 605,683,147 |  | 572,903,051 |
| c. Total | \$ | 822,419,996 | \$ | 777,144,086 | \$ | 742,286,289 |
| d. Contributions as percentage of payroll |  | 20.35\% |  | 19.26\% |  | 18.62\% |

## Actuarial Present Value of Future Benefits

$\frac{\text { June 30, } 2010}{\text { After Change } \quad \text { Before Change }}$| June 30, 2009 |
| :---: |
| $(2)$ |

1. Active members
a. Service retirement benefits
b. Deferred termination benefits
c. Refunds
d. Death benefits
e. Disability retirement benefits
f. Supplemental medical insurance
g. $\$ 5,000$ post-retirement death benefit
h. Total
2. Retired members
a. Service retirements
b. Disability retirements
c. Beneficiaries
d. Supplemental medical insurance
d. Supplemental medical insurance
e. $\$ 5,000$ post-retirement death benefit
f. Total

| \$ | 11,891,480,210 | \$ | 11,335,742,383 | \$ 11,206,385,028 |
| :---: | :---: | :---: | :---: | :---: |
|  | 489,970,795 |  | 560,618,022 | 544,235,171 |
|  | 25,466,552 |  | 28,581,039 | 29,544,332 |
|  | 172,362,643 |  | 217,749,646 | 212,805,508 |
|  | 304,256,577 |  | 265,734,957 | 259,745,067 |
|  | 344,701,752 |  | 350,988,321 | 346,171,031 |
|  | 31,370,453 |  | 34,826,927 | 34,371,257 |
| \$ | 13,259,608,982 | \$ | 12,794,241,295 | \$ 12,633,257,394 |

3. Inactive members
a. Vested terminations
b. Nonvested terminations
c. Suspense fund
d. Total

| \$ | 9,162,838,312 | \$ | 8,857,634,406 | \$ | 8,348,995,847 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 168,242,982 |  | 155,801,077 |  | 152,035,724 |
|  | 321,895,153 |  | 307,800,961 |  | 279,751,843 |
|  | 485,195,270 |  | 467,454,433 |  | 451,325,937 |
|  | 78,099,488 |  | 83,766,058 |  | 80,260,293 |
| \$ | 10,216,271,205 | \$ | 9,872,456,935 | \$ | 9,312,369,644 |

4. Total actuarial present value of future benefits $\$ 23,895,032,322 \quad \$ 23,075,878,877 \quad \$ 22,343,758,102$

| \$ | 362,075,328 | \$ | 352,103,840 | \$ | 342,740,266 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 26,530,146 |  | 26,530,146 |  | 27,107,286 |
|  | 30,546,661 |  | 30,546,661 |  | 28,283,512 |
| \$ | 419,152,135 | \$ | 409,180,647 | \$ | 398,131,064 |

## Analysis of Normal Cost

| June 30, 2010 |  |
| :---: | :---: |
| After Change $\quad$ Before Change |  |
| June 30, 2009 |  |
| $(2)$ |  |

1. Gross normal cost rate (payable monthly)
a. Retirement benefits
b. Deferred termination benefits
c. Refunds
d. Supplemental medical insurance
e. $\$ 5,000$ Post-retirement death benefits

| 9.13\% | 8.31\% | 8.31\% |
| :---: | :---: | :---: |
| 1.36\% | 1.36\% | 1.36\% |
| 0.59\% | 0.78\% | 0.78\% |
| 0.25\% | 0.28\% | 0.28\% |
| $0.04 \%$ | $0.04 \%$ | $0.04 \%$ |
| 0.11\% | 0.15\% | 0.15\% |
| 0.35\% | 0.33\% | 0.33\% |
| 11.83\% | 11.25\% | 11.25\% |

2. Less: member rate
7.00\% $\quad 7.00 \%$
7.00\%
3. Employer normal cost rate
4.83\%
4.25\%
4.25\%

## Schedule of Employer Contributions <br> (As required by GASB \#25)

| Year Ending June 30, | Annual Required Contribution | Percentage Contributed |
| :---: | :---: | :---: |
| 1996 | \$434,728,781 | 40.8\% |
| 1997 | \$446,459,961 | 62.0\% |
| 1998 | \$446,219,296 | 59.1\% |
| 1999 | \$456,864,002 | 53.5\% |
| 2000 | \$455,265,033 | 60.6\% |
| 2001 | \$451,463,258 | 72.7\% |
| 2002 | \$556,201,571 | 65.6\% |
| 2003 | \$585,168,488 | 61.9\% |
| 2004 | \$534,811,845 | 70.2\% |
| 2005 | \$722,095,783 | 56.2\% |
| 2006 | \$535,228,038 | 85.8\% |
| 2007 | \$575,745,142 | 93.1\% |
| 2008 | \$590,495,652 | 101.1\% |
| 2009 | \$714,367,558 | 86.6\% |
| 2010 | \$742,286,289 | 83.6\% |

## Notes to Required Supplementary Information (as required by GASB \#25)

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

| Valuation date | June 30, 2010 <br> Actuarial cost method |
| :--- | ---: |
| Amortization method | Level percent of payroll, open period |
| Remaining amortization period | 30 years |
| Asset valuation method | 5-year smoothed market |
| Actuarial assumptions: | $8.00 \%$ |
| Investment rate of return * | $4.00 \%$ to $12.00 \%$ |
| Projected salary increase * | $3.00 \%$ |
| * Includes inflation at: | $2.00 \%$ |
| Cost of living adjustment |  |

## Membership Data

1. Active members

| a. |  | 89,896 | 89,388 |
| :--- | :--- | ---: | ---: |
| b. | Total payroll supplied by System | $\$$ | $3,854,772,123$ |
| c. | Average salary | $\$$ | 42,880 |
| d. | Average age | 46.0 | $\$$ |
| e. | Average service | 11.5 | 42,600 |

2. Vested inactive members

| a. |  | 7,439 |  | 7,379 |
| :--- | :--- | ---: | ---: | ---: |
| b. | Total annual deferred benefits ${ }^{1}$ | $\$$ | $55,565,627$ | $\$$ |
| c. | Average annual deferred benefit | $\$$ | 7,470 | $\$$ |

3. Nonvested inactive members

| Number |  | 7,206 |  | 7,542 |
| :---: | :---: | :---: | :---: | :---: |
| Member contributions with interest due | \$ | 26,530,146 | \$ | 27,107,286 |
| Average refund due | \$ | 3,682 | \$ | 3,594 |

4. Service retirees

| a. |  | 44,926 |  | 43,125 |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| b. | Total annual benefits ${ }^{1}$ | $\$$ | $831,082,136$ | $\$$ | $783,462,925$ |
| c. | Average annual benefit | $\$$ | 18,499 | $\$$ | 18,167 |

5. Special service retirees

| a. Number |  | 34 | 51 |  |
| :--- | :--- | ---: | ---: | ---: |
| b. | Total annual benefits ${ }^{1}$ | $\$$ | 79,383 | $\$$ |
| c. Average annual benefit | $\$$ | 2,335 | $\$$ | 118,697 |
|  | 2,327 |  |  |  |

6. Disabled retirees
a. Number
$\begin{array}{rr} & 1,552 \\ \$ & 17,276,779\end{array}$
1,528
b. Total annual benefits ${ }^{1}$
c. Average annual benefit
\$ 11,132

7. Beneficiaries and spouses

|  |  | 2,244 | 2,092 |  |
| :--- | :--- | ---: | ---: | ---: |
| a. Number | $\$$ | $34,629,634$ | $\$$ | $31,356,536$ |
| b. Total annual benefits ${ }^{1}$ | $\$$ | 15,432 | $\$$ | 14,989 |

[^2]Historical Summary of Active Member Data


## Plan Net Assets

## (Assets at Market or Fair Value)

| Item | Valuation as of |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2010 |  | June 30, 2009 |  |
| (1) |  | (2) |  | (3) |
| 1. Cash and cash equivalents | \$ | 9,646,573 | \$ | 6,340,104 |
| 2. Receivables |  |  |  |  |
| a. Employer and member contributions | \$ | 57,035,454 | \$ | 59,155,703 |
| b. State contribution |  | 23,542,532 |  | 23,186,327 |
| c. Net investment income and other accruals |  | 45,625,225 |  | 42,908,046 |
| d. Total receivables | \$ | 126,203,211 | \$ | 125,250,076 |
| 3. Investments |  |  |  |  |
| a. Invested cash and other | \$ | 250,812,377 | \$ | 347,441,369 |
| b. Domestic equities |  | 3,823,639,130 |  | 3,061,520,655 |
| c. International equities |  | 1,161,634,953 |  | 1,040,221,820 |
| d. Fixed income |  | 3,068,133,609 |  | 3,030,737,534 |
| e. Real estate, furniture \& equipment |  | 187,847 |  | 224,182 |
| f. Total investments | \$ | 8,304,407,916 | \$ | 7,480,145,560 |
| 4. Total assets | \$ | 8,440,257,700 | \$ | 7,611,735,740 |
| 5. Liabilities |  |  |  |  |
| a. Benefits payable, including insurance payments | \$ | 15,999,565 | \$ | 71,953,759 |
| b. Net due to brokers |  | 64,235,927 |  | 79,137,516 |
| c. Other liabilities |  | 8,055,866 |  | 8,451,751 |
| d. Total liabilities | \$ | 88,291,358 | \$ | 159,543,026 |
| 6. Net assets available (Item 4-Item 5) | \$ | 8,351,966,342 | \$ | 7,452,192,714 |
| 7. Less: Deposit Fund * |  | - |  | $(225,308,449)$ |
| 8. Net assets available for the System's benefits | \$ | 8,351,966,342 | \$ | 7,226,884,265 |

*Effective June 30, 2010, the assets in the Teacher Deposit Fund were no longer included in (4) total assets.

## Distribution of Assets at Market Value (Percentage of Total Investments)

| Item | Valuation as of |  |
| :---: | :---: | :---: |
|  | June 30, 2010 | June 30, 2009 |
| (1) | (2) | (3) |
| a. Invested cash and other | 3.0\% | 4.7\% |
| b. Domestic equities | 46.0\% | 40.9\% |
| c. International equities | 14.0\% | 13.9\% |
| d. Fixed income | 37.0\% | 40.5\% |
| e. Real estate, furniture \& equipment | 0.0\% | 0.0\% |
| f Total investments | 100.0\% | 100.0\% |

## Reconciliation of Plan Net Assets

## Year Ending

| June 30, 2010 |  | June 30, 2009 |
| :---: | :---: | :---: |
| $(1)$ |  |  |

1. Market value of assets at beginning of year, net of Deposit Fund
a. Value reported in prior valuation
b. Prior period adjustments
c. Revised value
2. Revenue for the year
a. Contributions
i. Member contributions, including state credit
ii. Federal matching funds
iii. State contribution
iv. Employer/district contributions
v. Total
b. Net investment earnings
i. Interest, dividends and other income
ii. Net appreciation/(depreciation)
\$ 268,607,285
\$ 241,878,492
iii. Less: investment expenses
iv. Less: transfers to Teachers' Deposit Fund
v. Net investment earnings
c. Total revenue
\$ 2,073,383,723
\$ $(493,195,150)$
3. Expenditures for the year
a. Refunds
b. Benefit payments, including insurance payments
c. Administrative expenses
d. Total expenditures

| $30,409,340$ |  | $\$$ | $32,130,597$ |
| ---: | :--- | ---: | ---: |
| $912,912,714$ |  | $876,273,192$ |  |
| $4,979,589$ |  |  |  |
|  |  | $948,3016,643,491$ |  |
|  |  | $913,620,280$ |  |

4. Increase in net assets
(Item 2 - Item 3)
\$ 1,125,082,080
\$ (1,406,815,430)
5. Market value of assets at end of year, net of Deposit Fund (Item $1+$ Item 4)

## Development of Actuarial Value of Assets

Year Ending
June 30, 2010

1. Market value of assets at beginning of year
2. Net new investments
a. Contributions
b. Benefits paid
c. Refunds
d. Subtotal
3. Market value of assets at end of year
4. Net earnings (3-1-2)
5. Assumed investment return rate
6. Expected return
7. Excess return (4-6)
8. Excess return on assets for last four years :

Period End
(1)
a. June 30, 2007
b. June 30, 2008
c. June 30, 2009
d. June 30, 2010

Excess Return
(2)

784,454,583
$(1,446,413,554)$
$(2,095,931,855)$
580,645,694
9. Actuarial value of assets (Item 3 - Item 8)
10. Actuarial value as percentage of market value
\$ 7,226,884,262
\$ 910,904,405
$(912,912,714)$

| $(30,409,340)$ |
| :--- |
| $(32,417,649)$ |

\$ 8,351,966,342
\$ 1,157,499,729
8.00\%
\$ 576,854,035
\$ 580,645,694

Percent Deferred
Deferred Amount
(4)
\$ 156,890,917 $(578,565,422)$ $(1,257,559,113)$
$\begin{array}{r}464,516,555 \\ \hline(1,214,717,063)\end{array}$
\$ 9,566,683,405
114.5\%

## Estimation of Yields

A. Market value yield

1. Beginning of year market assets
2. Net investment income (including realized and unrealized gains and losses)
3. End of year market assets
4. Estimated dollar weighted market value yield
B. Actuarial value yield
5. Beginning of year actuarial assets
6. Actuarial return
7. End of year actuarial assets
8. Estimated actuarial value yield

Year Ending

| June 30, 2010 |
| :---: |
| (1) |

\$ 7,226,884,262 \$ 8,633,699,695
\$ $1,162,479,318 \quad \$(1,400,080,140)$
\$ 8,351,966,342 \$ 7,226,884,265
16.1\%
-16.2\%

| 1. | Beginning of year actuarial assets | \$ | 9,438,974,309 | \$ | 9,256,786,936 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2. | Actuarial return | \$ | 160,126,745 | \$ | 183,706,172 |
| 3. | End of year actuarial assets | \$ | 9,566,683,405 | \$ | 9,438,974,309 |
|  | Estimated actuarial value yield |  | 1.7\% |  | 2.0\% |

[^3]History of Cash Flow
\[

$$
\begin{aligned}
& \text { Distributions and Expenditures } \\
& \hline
\end{aligned}
$$
\]

Table 10

## Investment Experience Gain or Loss

| Item | Year Ending <br> June 30, 2010 |  | Year Ending June 30, 2009 |
| :---: | :---: | :---: | :---: |
| (1) | (2) |  | (3) |
| 1. Actuarial assets, beginning of year | \$ 9,438,974,309 | \$ | 9,256,786,936 |
| 2. Contributions during year | \$ 910,904,405 | \$ | 906,884,990 |
| 3. Benefits and refunds paid | \$ $(943,322,054)$ | \$ | $(908,403,789)$ |
| 4. Assumed net investment income at $8 \%$ |  |  |  |
| a. Beginning of year assets | \$ 755,117,945 | \$ | 740,542,955 |
| b. Contributions | 36,436,176 |  | 36,275,400 |
| c. Benefits and refunds paid | (37,732,882) |  | $(36,336,152)$ |
| d. Total | \$ 753,821,239 | \$ | 740,482,203 |
| 5. Expected actuarial assets, end of year (Sum of items 1 through 4) | \$ 10,160,377,899 | \$ | 9,995,750,340 |
| 6. Actual actuarial assets, end of year | \$ 9,566,683,405 | \$ | 9,438,974,309 |
| 7. Asset gain (loss) for year (Item 6 - Item 5) | \$ $(593,694,494)$ | \$ | $(556,776,031)$ |

## Total Experience Gain or Loss

| Item | Year Ending <br> June 30, 2010 | Year Ending <br> June 30, 2009 |
| :---: | :---: | :---: | :---: | :---: |
| $(1)$ | $(2)$ | $(3)$ |

A. Calculation of total actuarial gain or loss

1. Unfunded actuarial accrued liability (UAAL), previous year
2. Normal cost for the year (employer and employee)
3. Less: total contributions for the year
4. Interest at $8 \%$
a. On UAAL
b. On normal cost
c. On contributions
d. Total
5. Expected UAAL (Sum of Items 1-4)
6. Actual UAAL
7. Total gain (loss) for the year (Item 5 - Item 6)
B. Source of gains and losses
8. Asset gain (loss) for the year
9. Liability gain (loss) for the year
10. Ad hoc COLA granted different than assumed
11. Impact of changes in actuarial assumptions and methods
12. Total
$\$ 9,511,974,854 \$ 9,090,077,516$
$\$ \quad 448,367,394 \quad \$ \quad 441,728,582$
$\$ \quad(910,904,405) \quad \$ \quad(906,884,990)$

| $\$$ | $760,957,988$ |  | $\$$ | $727,206,201$ |
| :---: | :---: | :---: | :---: | :---: |
|  | $17,934,696$ |  | $17,669,143$ |  |
|  | $(36,436,176)$ |  | $(36,275,400)$ |  |
|  | $742,456,508$ |  | $\$ 08,599,944$ |  |

\$ 9,791,894,351 \$ 9,333,521,052
$\$ 10,413,957,187 \quad \$ 9,511,974,854$
$\$ \quad(622,062,836) \quad \$ \quad(178,453,802)$
$\$ \quad(593,694,494) \quad \$ \quad(556,776,031)$

160,139,971 223,632,158
$169,222,331 \quad 154,690,071$
$(357,730,644)$
$\$ \quad(622,062,836) \quad \$ \quad(178,453,802)$

## Analysis of Change in Unfunded Actuarial Accrued Liability (UAAL)

| Basis | $\begin{gathered} \text { June 30, } 2010 \\ \text { UAAL } \\ \text { (in \$ Millions) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { June 30, } 2009 \\ \text { UAAL } \\ \text { (in \$ Millions) } \end{gathered}$ |
| :---: | :---: | :---: |
| (1) | (2) | (3) |
| 1. From prior valuation | 9,512.0 | 9,090.1 |
| 2. Impact of changes, gains and losses |  |  |
| a. Expected increase based on expected contributions and passage of time | 259.1 | 246.4 |
| b. Liability (gain)/loss | (160.1) | (223.6) |
| c. Asset (gain)/loss | 593.7 | 556.8 |
| d. Impact of actual contributions (more)/less than expected under schedule | 20.9 | (3.0) |
| e. Ad hoc COLA granted different than assumed | (169.2) | (154.7) |
| f. Impact of changes in actuarial assumptions and methods | 357.7 | 0.0 |
| h. Total | 902.1 | 421.9 |
| 3. Current UAAL ( $1+2 \mathrm{~h}$ ) | 10,414.0 | \$ 9,512.0 |

Columns may not total due to rounding

## Projection of UAAL

| Valuation Date | UAAL <br> (Millions) |
| :---: | :---: |
| (1) | (2) |
| June 30, 2010 | 10,414.0 |
| June 30, 2011 | 11,329.9 |
| June 30, 2012 | 12,427.7 |
| June 30, 2013 | 13,260.8 |
| June 30, 2014 | 13,700.7 |
| June 30, 2015 | 14,283.9 |
| June 30, 2016 | 14,896.1 |
| June 30, 2017 | 15,538.7 |
| June 30, 2018 | 16,213.4 |
| June 30, 2019 | 16,922.0 |
| June 30, 2020 | 17,666.3 |
| June 30, 2021 | 18,448.4 |
| June 30, 2022 | 19,270.2 |
| June 30, 2023 | 20,134.1 |
| June 30, 2024 | 21,042.5 |
| June 30, 2025 | 21,998.0 |
| June 30, 2026 | 23,003.4 |
| June 30, 2027 | 24,061.8 |
| June 30, 2028 | 25,176.4 |
| June 30, 2029 | 26,350.7 |
| June 30, 2030 | 27,588.2 |
| June 30, 2031 | 28,892.9 |
| June 30, 2032 | 30,268.9 |
| June 30, 2033 | 31,720.6 |
| June 30, 2034 | 33,252.6 |
| June 30, 2035 | 34,869.9 |
| June 30, 2036 | 36,577.8 |
| June 30, 2037 | 38,382.0 |
| June 30, 2038 | 40,288.5 |
| June 30, 2039 | 42,304.0 |

Table 14
Table 15
Distribution of Active Members by Age and by Years of Service

|  | Distribution of Active Members by Age and by Years of Service |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Years of Credited Service |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 \& Over | Total |
| Attained Age | Count \& Avg. Comp |  <br> Avg. Comp |  <br> Avg Comp |  <br> Avg. Comp |  <br> Avg. Comp |  <br> Avg. Comp |  <br> Avg. Comp |  <br> Avg. Comp |  <br> Avg. Comp | Count \& Avg. Comp |  <br> Avg Comp | Count \& Avg. Comp | Count \& Avg. Comp. |
| Under 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 188 | 817 | 254 | 69 | 25 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1,363 |
|  | \$20,822 | \$30,021 | \$29,931 | \$23,284 | \$24,504 | \$30,607 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$28,297 |
| 25-29 | 287 | 1,629 | 1,643 | 1,420 | 1,035 | 1,284 | 8 | 0 | 0 | 0 | 0 | 0 | 7,306 |
|  | \$21,762 | \$32,223 | \$33,380 | \$34,511 | \$35,541 | \$35,808 | \$29,370 | \$0 | \$0 | \$0 | \$0 | \$0 | \$33,614 |
| 30-34 | 240 | 962 | 1,016 | 871 | 901 | 3,851 | 735 | 2 | 0 | 0 | 0 | 0 | 8,578 |
|  | \$18,560 | \$31,859 | \$33,579 | \$35,278 | \$36,747 | \$39,218 | \$42,166 | \$25,164 | \$0 | \$0 | \$0 | \$0 | \$36,737 |
| 35-39 | 241 | 926 | 913 | 772 | 785 | 3,000 | 3,238 | 626 | 1 | 0 | 0 | 0 | 10,502 |
|  | \$17,738 | \$30,541 | \$32,723 | \$34,116 | \$36,163 | \$40,756 | \$44,356 | \$47,466 | \$40,680 | \$0 | \$0 | \$0 | \$39,307 |
| 40-44 | 231 | 795 | 807 | 694 | 726 | 2,755 | 2,441 | 2,438 | 695 | 5 | 0 | 0 | 11,587 |
|  | \$18,909 | \$30,803 | \$31,275 | \$34,181 | \$35,401 | \$40,644 | \$46,526 | \$49,104 | \$48,973 | \$42,802 | \$0 | \$0 | \$41,687 |
| 45-49 | 200 | 700 | 701 | 652 | 692 | 2,573 | 2,443 | 1,907 | 2,116 | 753 | 12 | 0 | 12,749 |
|  | \$19,503 | \$29,383 | \$32,808 | \$31,507 | \$34,699 | \$38,941 | \$45,702 | \$50,762 | \$52,778 | \$53,563 | \$67,659 | \$0 | \$43,415 |
| 50-54 | 190 | 575 | 579 | 528 | 540 | 2,237 | 2,350 | 2,125 | 1,866 | 2,140 | 829 | 4 | 13,963 |
|  | \$16,094 | \$30,428 | \$31,192 | \$31,775 | \$33,436 | \$38,600 | \$44,581 | \$47,475 | \$53,727 | \$55,201 | \$56,940 | \$79,164 | \$45,216 |
| 55-59 | 123 | 447 | 461 | 421 | 434 | 1,713 | 1,948 | 1,948 | 2,003 | 1,337 | 1,614 | 523 | 12,972 |
|  | \$21,393 | \$31,612 | \$33,169 | \$37,200 | \$35,056 | \$40,260 | \$45,127 | \$47,541 | \$51,227 | \$59,573 | \$59,515 | \$62,541 | \$48,060 |
| 60-64 | 89 | 204 | 231 | 262 | 230 | 1,074 | 1,082 | 1,171 | 1,257 | 877 | 692 | 847 | 8,016 |
|  | \$15,713 | \$28,077 | \$30,806 | \$33,783 | \$41,451 | \$38,074 | \$49,146 | \$48,935 | \$52,146 | \$59,957 | \$70,153 | \$67,436 | \$50,872 |
| 65 \& Over | 49 | 83 | 111 | 119 | 117 | 448 | 373 | 370 | 365 | 285 | 197 | 343 | 2,860 |
|  | \$12,527 | \$24,833 | \$26,073 | \$24,070 | \$26,657 | \$31,176 | \$43,583 | \$50,741 | \$53,020 | \$62,164 | \$69,638 | \$94,037 | \$50,207 |
| Total | 1,838 | 7,138 | 6,716 | 5,808 | 5,485 | 18,945 | 14,618 | 10,587 | 8,303 | 5,397 | 3,344 | 1,717 | 89,896 |
|  | \$18,966 | \$30,880 | \$32,465 | \$33,763 | \$35,466 | \$39,162 | \$45,299 | \$48,725 | \$52,212 | \$57,184 | \$61,703 | \$71,286 | \$42,880 |

Years of Credited Service

## Summary of Actuarial Assumptions and Methods

## I. Valuation Date

The valuation date is June 30th of each plan year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

## II. Actuarial Cost Method

Because the employer contribution rate is set by statute, the actuarial valuation is used to determine the funding period--the number of years required to amortize the Unfunded Actuarial Accrued Liability (UAAL). It is also used to calculate the Annual Required Contribution (ARC) as defined by GASB 25.

The actuarial valuation uses the Entry Age actuarial cost method. Under this method, a normal cost rate is first determined. This is the contribution rate (level as a percentage of pay) required to provide the benefits of the average new member. The normal cost rate consists of two pieces: (i) the member's own contribution rate, and (ii) a portion of the employer contribution rate. This second piece is called the employer normal cost rate.

The total normal cost is determined by dividing the present value of future benefits for a hypothetical group of new members by the present value of their future pay. In calculating the benefits for this group, all changes in provisions or member contribution rates scheduled to occur in the future are assumed to already be in effect. The hypothetical group of new entrants was reset in the 2010 experience study, based on actual new members joining during FY 2005 through FY 2009.

Next, the UAAL is determined. This is the liability for future benefits which is in excess of (i) the actuarial value of assets, and (ii) the present value of future normal costs. The employer contribution that is not used for the employer normal cost is applied to amortize the UAAL.

The funding period is calculated as the number of years required to fully amortize the UAAL, assuming that the System's payroll increases at the payroll growth rate and the State's contribution increases at the State's revenue growth rate. Both employer and member contributions are assumed to be made monthly.

The Entry Age actuarial cost method is an immediate gain" method (i.e., experience gains and losses are separately identified as part of the UAAL). However, they are amortized over the same period applied to all other components of the UAAL.

The actuarial valuation also determines the GASB Annual Required Contribution (ARC). This is the contribution required to pay the normal cost and amortize the UAAL over 30 years as a level percent of pay. The 30 -year period applies to all components of the UAAL and is recalculated each year (open amortization method).

## III. Actuarial Value of Assets

The actuarial value of assets is equal to the market value, adjusted for a five-year phase in of actual investment return in excess of expected investment return. The actual return is calculated net of investment and administrative expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

## IV. Actuarial Assumptions

A. Economic Assumptions

1. Investment return: $8.00 \%$ per year, compounded annually, composed of an assumed $3.00 \%$ inflation rate and a $5.00 \%$ net real rate of return.
2. Salary increase rate: A $4.00 \%$ wage inflation component, including $3.00 \%$ price inflation, plus a service-related component as shown below:

| Years of Service | Service-Related <br> Component |  | Total Salary <br> Increase Rate |
| :---: | :---: | :---: | :---: |
| $(1)$ | $(2)$ |  | $(3)$ |
| 0 | $8.00 \%$ |  | $12.00 \%$ |
| $1-2$ | $1.50 \%$ |  | $5.50 \%$ |
| $3-4$ | $1.25 \%$ |  | $5.25 \%$ |
| $5-11$ | $1.00 \%$ |  | $5.00 \%$ |
| $12-17$ | $0.75 \%$ |  | $4.75 \%$ |
| $18-21$ | $0.50 \%$ |  | $4.50 \%$ |
| $22-24$ | $0.25 \%$ |  | $4.25 \%$ |
| 25 or more | $0.00 \%$ |  |  |
|  |  |  |  |
|  |  |  |  |

3. Payroll growth rate: In the amortization of the unfunded actuarial accrued liability, payroll is assumed to increase $3.50 \%$ per year. This increase rate has no allowance for future membership growth.
4. State revenue growth rate: In determining the funding period, the state's sales and income tax revenues are anticipated to grow at $3.50 \%$ per year. However, for years FY 2007 through FY 2010, revenue growth was decreased, reflecting the expected impact of new income tax rates.
5. Future ad hoc cost-of-living increases: $2.00 \%$ per year.

## B. Demographic Assumptions

1. Mortality rates - after retirement or termination.
a. Healthy males - RP-2000 Combined Mortality Table for males, projected to the year 2016 using Scale AA, multiplied by $90 \%$, no set back.
b. Healthy females - RP-2000 Combined Mortality Table for females, projected to the year 2016 using Scale AA, multiplied by $80 \%$, no set back.
c. Disabled males - RP-2000 Mortality Table for disabled males, multiplied by $75 \%$, no set back.
d. Disabled females - RP-2000 Mortality Table for disabled females, multiplied by $100 \%$, no set back.

Sample rates are shown below:

| Age | Expected Deaths per 100 Lives |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Healthy } \\ & \text { Males } \end{aligned}$ | Healthy Females | Disabled Males | Disabled Females |
| (1) | (2) | (3) | (4) | (4) |
| 40 | 0.09 | 0.04 | 1.69 | 0.75 |
| 45 | 0.11 | 0.07 | 1.69 | 0.75 |
| 50 | 0.14 | 0.10 | 2.17 | 1.15 |
| 55 | 0.24 | 0.19 | 2.66 | 1.65 |
| 60 | 0.47 | 0.37 | 3.15 | 2.18 |
| 65 | 0.91 | 0.72 | 3.76 | 2.80 |
| 70 | 1.57 | 1.24 | 4.69 | 3.76 |
| 75 | 2.72 | 1.98 | 6.16 | 5.22 |
| 80 | 4.93 | 3.28 | 8.20 | 7.23 |

2. Mortality rates - active members - RP-2000 Employee Mortality tables, with male rates multiplied by $60 \%$ and female rates multiplied by $50 \%$. Sample rates are shown below:

| Age | Expected Deaths per 100 Lives |  |
| :---: | :---: | :---: |
|  | Male Members | Female Members |
| (1) | (2) | (3) |
| 25 | 0.02 | 0.01 |
| 30 | 0.03 | 0.01 |
| 35 | 0.05 | 0.02 |
| 40 | 0.06 | 0.04 |
| 45 | 0.09 | 0.06 |
| 50 | 0.13 | 0.08 |
| 55 | 0.18 | 0.13 |
| 60 | 0.29 | 0.20 |
| 65 | 0.45 | 0.29 |

3. Disability rates - Based on 2010 Experience Study, males and females separate. Sample rates are shown below:

| Age | Expected Disabilities Occurring per 100 Lives |  |
| :---: | :---: | :---: |
|  | Male <br> Members | Female Members |
| (1) | (2) | (3) |
| 25 | 0.025 | 0.023 |
| 30 | 0.025 | 0.023 |
| 35 | 0.035 | 0.045 |
| 40 | 0.065 | 0.112 |
| 45 | 0.100 | 0.180 |
| 50 | 0.300 | 0.270 |
| 55 | 0.450 | 0.378 |
| 60 | 0.175 | 0.378 |
| 65 | 0.000 | 0.000 |

Disability rates are applied only for members with 10 or more years of service, since rates were developed based on exposure for this group.
4. Termination Rates - Separate male and female rates, based solely on the member's service, developed from the 2010 Experience Study. Rates reflect terminations for causes other than death, disability or retirement. Sample rates are shown below:

Expected Terminations per 100 Lives

| Credited Service (Years) | Males | Females |
| :---: | :---: | :---: |
| (1) | (2) | (3) |
| 0 | 30.00 | 24.00 |
| 1 | 14.00 | 12.00 |
| 2 | 12.50 | 10.50 |
| 3 | 11.00 | 9.00 |
| 4 | 9.50 | 8.25 |
| 5 | 8.50 | 7.50 |
| 6 | 7.50 | 6.75 |
| 7 | 6.75 | 6.00 |
| 8 | 6.00 | 5.25 |
| 9 | 5.25 | 4.50 |
| 10 | 4.75 | 4.00 |
| 11 | 4.50 | 3.50 |
| 12 | 4.00 | 3.25 |
| 13 | 3.75 | 3.00 |
| 14 | 3.50 | 2.75 |
| 15 | 3.25 | 2.50 |
| 16 | 3.00 | 2.25 |
| 17 | 2.75 | 2.00 |
| 18 | 2.50 | 1.75 |
| 19 | 2.25 | 1.50 |
| 20 | 2.00 | 1.40 |
| 21 | 1.75 | 1.30 |
| 22 | 1.50 | 1.20 |
| 23 | 1.25 | 1.10 |
| 24 | 1.00 | 1.00 |
| 25 or more | 0.00 | 0.00 |

Termination rates are not applied to a member who is eligible for a retirement benefit (reduced or unreduced).
5. Retirement rates - Separate male and female rates, based on age, developed from the 2010 Experience Study. Sample rates are shown below:

Expected Retirements per 100 Lives

| Age | Unreduced Retirement |  |  |  | Reduced Retirement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males |  | Females |  | Males | Females |
|  | Rule of 80 | Rule of 90 | Rule of 80 | Rule of 90 |  |  |
| Under 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 51 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 52 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 53 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 54 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 55 | 12.0 | 19.5 | 12.5 | 20.0 | 1.0 | 1.5 |
| 56 | 12.0 | 19.5 | 12.5 | 20.0 | 1.8 | 2.0 |
| 57 | 12.0 | 22.0 | 12.5 | 22.5 | 2.0 | 2.3 |
| 58 | 12.0 | 22.0 | 12.5 | 22.5 | 2.3 | 2.5 |
| 59 | 12.0 | 22.0 | 12.5 | 22.5 | 2.5 | 2.8 |
| 60 | 12.0 | 22.0 | 15.0 | 25.0 | 2.8 | 3.0 |
| 61 | 12.0 | 22.0 | 18.0 | 28.0 | 3.0 | 3.5 |
| 62 | 20.0 | 30.0 | 25.0 | 35.0 |  |  |
| 63 | 18.0 | 18.0 | 18.0 | 18.0 |  |  |
| 64 | 16.0 | 16.0 | 16.0 | 16.0 |  |  |
| 65 | 20.0 | 20.0 | 25.0 | 25.0 |  |  |
| 66 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 67 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 68 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 69 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 70 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 71 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 72 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 73 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 74 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 75 and | 100.0 | 100.0 | 100.0 | 100.0 |  |  |

## C. Other Assumptions

1. Percent married: $80 \%$ of employees are assumed to be married.
2. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
3. Percent electing annuity on death (when eligible): All of the spouses of married participants who die after becoming eligible for a retirement benefit are assumed to elect an annuity, in lieu of the $\$ 18,000$ lump sum and refund.
4. Percent electing deferred termination benefit: vested terminating members are assumed to elect a refund or a deferred benefit, whichever is more valuable at the time of termination.
5. Assumed age for commencement of deferred benefits: Members electing to receive a deferred benefit are assumed to commence receipt at age 62 .
6. Administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.
7. Supplemental medical insurance: All members, whether currently active, inactive, or retired, are assumed to be eligible to receive the supplemental insurance benefit, if they have at least 10 years of service credit at retirement.
8. Members who retire with at least 24 years of credited service are assumed to have 120 days of unused sick leave for which they will receive one year of service credit. This assumption only applies to reduced and unreduced retirement.
9. No assumption was made that current active members employed by the comprehensive universities will elect to transfer out of OTRS.
10. Reemployment, purchase of service, transfers: No recognition is made of (i) future member reimbursements upon reemployment, (ii) future purchase of additional service, or (iii) special transfer provisions.
11. For EESIP eligible employees, if the refund amount to be paid exceeds the actuarial present value of the additional benefit, then we assume the member does not elect the enhanced benefit.

## V. Participant Data

Participant data was supplied on an electronic file for (i) active members, (ii) inactive vested members who are entitled to a future deferred benefit, (iii) inactive nonvested members who are entitled to a refund of their employee contributions, and in some cases a portion of the accumulated interest, and (iv) members and beneficiaries receiving benefits.

The data for active and inactive, non-retired members included birthdate, sex, years of service, a classified/non-classified status code, salary, employee contributions and accumulated interest on employee contributions. The data also included a code to indicate
whether the employee had elected to make contributions on salary above $\$ 25,000$, and a code indicating the type of employer (comprehensive university, other college or university, or other employer). For retired members and beneficiaries, the data included date of birth, sex, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and a form of payment code.

Salary supplied for the current year was based on the earnings for the October preceding the valuation date. This salary was adjusted by the salary increase rate for one year.

Assumptions were made to correct for missing, bad, or inconsistent data. These had no material impact on the results presented.

Some inactive, nonvested employees who are entitled to a refund are not included in the data, but a liability for their refund is included instead in the Suspense Fund, which is included in the liability.

## VI. Dates of Adoption of Assumptions and Methods

Generally, the actuarial assumptions and methods were developed from the 2010 experience study, and were adopted by the Board of Trustees in September 2010 and first reflected in this actuarial valuation. The adopted assumptions were recommended by the actuary. Some assumptions were left unchanged from the prior experience study in 2005, including the investment return rate, the inflation and payroll growth rates, and the male disability rates.

Since the June 30, 2004 valuation, there has been an assumption that future ad hoc cost-of-living increases would be granted from time to time, without additional funding. The initial assumption was that these would average $1.00 \%$ per year. Effective July 1, 2008, the assumption was modified from $1.00 \%$ to $2.00 \%$ per year.

## addendum to June 30, 2010 Actuarial Valuation

## Certification

We have prepared an actuarial valuation of the Oklahoma Teachers' Retirement System as of June 30, 2010, for the plan year ending June 30, 2010. The results of the valuation are set forth in this report, which reflects the provisions of the System as amended and effective on June 30, 2010.

The valuation is based on employee and financial data which were provided by the Oklahoma Teachers' Retirement System and the independent auditor, respectively, and which are summarized in this report.

The results in this Addendum have been prepared for the sole purpose of meeting the Retirement Board's requirement to submit this information to the Oklahoma State Pension Commission, based on the following prescribed assumptions (70 O.S. 2001, Section 17-106.1, Section H):

Interest rate: 7.50\%
COLA assumption: 2.00\%
Mortality: RP 2000 Generational Mortality Tables (active members, healthy annuitants, and disabled annuitants)
Amortization period: 30 years, open period
Sources of all contributions and revenues, including dedicated tax fee revenue and federal monies

All other assumptions, methodologies, and plan provisions used are consistent with those used in the regular June 30, 2010 valuation prepared for the Board of Trustees.

The results shown in this Addendum are not consistent with those in the June 30, 2010 valuation. The June 30, 2010 valuation results were determined in accordance with generally accepted actuarial principles and procedures, and are in compliance with the Actuarial Standards of Board Actuarial Standard of Practice No. 27-Selection of Economic Assumptions for Measuring Pension Obligations and No. 35-Selection of Demographic and Other Noneconomic Assumptions for Measuring Pension Obligations. The results shown in this Addendum are not based on the assumptions and methodologies adopted by the Board of Trustees. For those results, see the regular June 30, 2010 actuarial valuation.

We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.
Q. Christian Comali
J. Christian Conradi, ASA, MAAA, EA

Mank R. Randall
Mark R. Randall, FCA, EA, MAAA

October 27, 2010

October 27, 2010

## Summary of Valuation Results under Prescribed Assumptions

This supplemental report has been prepared by Gabriel, Roeder, Smith \& Company for the Oklahoma Teachers' Retirement System to present the results of a valuation of the Oklahoma Teachers' Retirement System as of June 30, 2010, based on the prescribed assumptions under 70 O.S. 2001, Section 17-106.1, Section H of current State Statutes and regulations issued thereunder.

A summary of principal valuation results from the current valuation and the prior valuation.

|  | Actuarial Valuation as of |  | Change Between Years |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2010 | June 30, 2009 | Amount | Percent |
| Summary of Costs |  |  |  |  |
| Required State Contribution for Current Year under Prescribed Assumptions | \$748,747,239 | \$729,668,891 | \$19,078,349 | 2.61\% |
| Actual State Contribution Received in Prior Year | \$227,926,247 | \$257,019,830 | -\$29,093,583 | -11.32\% |


| Funded Status |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | :---: |
| Actuarial Accrued Liability | $\$ 20,606,348,602$ | $\$ 20,227,626,846$ | $\$ 378,721,756$ | $1.87 \%$ |  |
| Actuarial Value of Assets | $\$ 9,566,683,405$ | $\$ 9,438,974,309$ | $\$ 127,709,096$ | $1.35 \%$ |  |
| Unfunded Actuarial Accrued |  |  |  |  |  |
| Liability | $\$ 11,039,665,197$ | $\$ 10,788,652,537$ | $\$ 251,012,660$ | $2.33 \%$ |  |


| Market Value of Assets and Additional Liabilities |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Market Value of Assets | $\$ 8,351,966,342$ | $\$ 7,226,884,265$ | $\$ 1,125,082,077$ | $15.57 \%$ |
| Present Value of Projected System <br> Benefits |  |  |  |  |


| Summary of Contribution Requirements | Actuarial Valuation as of |  |  |  | \% of Change |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2010 |  | June 30, 2009 |  |  |
|  | Amount | \% of <br> Active <br> Covered <br> Comp | Amount | \% of <br> Active <br> Covered <br> Comp |  |
| 1. Payroll |  |  |  |  |  |
| a. Supplied by system | \$3,854,772,123 |  | \$3,807,914,178 |  | 1.23\% |
| b. Adjusted for 1-year's pay increase | \$4,041,218,473 |  | \$3,985,487,949 |  | 1.40\% |
| 2. Total normal cost (mid-year) | \$530,168,777 | 13.12\% | \$509,678,568 | 12.79\% | 4.02\% |
| 3. Unfunded actuarial accrued liability (UAAL) | \$11,039,665,197 |  | \$10,788,652,537 |  | 2.33\% |
| 4. Amortization of UAAL over 30 years from valuation date | \$904,070,443 | 22.37\% | \$883,514,283 | 22.17\% | 2.33\% |
| 5. Total required contribution under prescribed assumptions $(2+4)$ | \$1,434,239,220 | 35.49\% | \$1,393,192,851 | 34.96\% | 2.95\% |
| 6. Estimated employee contribution (7\% x 1b) | \$282,885,293 | 7.00\% | \$278,984,156 | 7.00\% | 1.40\% |
| 7. Estimated local employer and federa/grant contributions |  |  |  |  |  |
| a. Local employers | \$380,016,277 | 9.40\% | \$360,327,965 | 9.04\% |  |
| b. Federal/grant | \$22,590,411 | 0.56\% | \$24,211,839 | 0.61\% | -6.70\% |
| c. Total | \$402,606,688 | 9.96\% | \$384,539,804 | 9.65\% | 4.70\% |
| 8. Required state contribution to amortize UAAL over 30 years from valuation date (5-6-7c) | \$748,747,239 | 18.53\% | \$729,668,891 | 18.31\% | 2.61\% |
| 9. Previous year's actual State Contribution | \$227,926,247 | 5.72\% | \$257,019,830 | 6.55\% | -11.32\% |
| 10. Projected State Contribution per OSF | \$225,055,720 | 5.57\% | \$267,429,780 | 6.71\% | -15.84\% |
| 11. Funding period | Not Sufficient to Amortize UAAL |  | Not Sufficient to Amortize UAAL |  | N/A |

## Unfunded Actuarial Accrued Liability

The actuarial accrued liability is the present value of projected system benefits allocated to past service by the actuarial funding method being used.

|  | Total System |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | June 30, 2010 |  | June 30, 2009 |  |
| 1. Actuarial Present Value of Benefits |  |  |  |  |
| a. Active members | \$ | 14,380,481,846 | \$ | 14,125,985,972 |
| b. Inactives |  | 442,901,783 |  | 431,314,313 |
| c. Retirees and beneficiaries |  | 10,260,431,155 |  | 9,668,516,712 |
| d. Total |  | 25,083,814,784 |  | 24,225,816,997 |
| 2. Actuarial Present Value of Future Normal Costs | \$ | 4,477,466,182 | \$ | 3,998,190,150 |
| 3. Total Actuarial Accrued Liability (1d - 2) | \$ | 20,606,348,602 | \$ | 20,227,626,846 |
| 4. Actuarial Value of Assets | \$ | 9,566,683,405 | \$ | 9,438,974,309 |
| 5. Unfunded Actuarial Accrued Liability (3-4, not less than \$0) | \$ | 11,039,665,197 | \$ | 10,788,652,537 |

## Normal Cost

The components of normal cost under the System's funding method are:

| Component | June 30, 2010 | June 30, 2009 |
| :--- | ---: | ---: |
| Retirement Benefits | $\$ 411,396,041$ | $\$ 385,795,233$ |
| Withdrawal Benefits | $57,480,135$ | $57,759,835$ |
| Active Death Benefits | $10,427,102$ | $8,838,848$ |
| Refunds | $21,707,966$ | $26,705,044$ |
| Supplemental Medical Insurance | $10,804,590$ | $12,039,228$ |
| Post Retirement Death Benefits | $1,637,927$ | $1,864,613$ |
| Disability Benefits | $16,715,016$ | $16,675,767$ |
| Total Normal Cost (Mid-year) | $\mathbf{5 3 0 , 1 6 8 , 7 7 7}$ | $\$$ |
| Annual Covered Payroll (with pay caps) | $\mathbf{5 0 9 , 6 7 8 , 5 6 8}$ |  |
| Normal Cost Rate At Mid-year | $\$, 041,218,473$ | $\$$ |

## Actuarial Assumptions

This section presents and describes the actuarial assumptions used for this supplemental valuation. The census of members, market and actuarial value of assets, actuarial basis and provisions of the Plan are the same as described elsewhere in this valuation report. The valuation is based on the premise that the Plan will continue in existence.

## Economic Assumptions

1. Investment Return: 7.5\%, net of investment and administrative expenses, per annum, compound annually.
2. Salary increase rate: A $4.00 \%$ wage inflation component, including $3.00 \%$ price inflation, plus a service-related component as shown below:

| Years of Service | Service-Related <br> Component |  | Total Salary <br> Increase Rate |
| :---: | :---: | :---: | :---: |
| $(1)$ | $(2)$ | $(3)$ |  |
| 0 | $8.00 \%$ |  | $12.00 \%$ |
| $1-2$ | $1.50 \%$ |  | $5.50 \%$ |
| $3-4$ | $1.25 \%$ |  | $5.25 \%$ |
| $5-11$ | $1.00 \%$ |  | $5.00 \%$ |
| $12-17$ | $0.75 \%$ |  | $4.75 \%$ |
| $18-21$ | $0.50 \%$ |  | $4.50 \%$ |
| $22-24$ | $0.25 \%$ |  | $4.25 \%$ |
| 25 or more | $0.00 \%$ |  | $4.00 \%$ |

3. Payroll growth rate: In the amortization of the unfunded actuarial accrued liability, payroll is assumed to increase $3.5 \%$ per year. This increase rate has no allowance for future membership growth.
4. State revenue growth rate: In determining the funding period, the state's sales and income tax revenues are anticipated to grow at $3.5 \%$ per year. However, for years FY 2007 through FY 2010, revenue growth was decreased, reflecting the expected impact of new income tax rates.
5. Future ad hoc cost-of-living increases: We assume that in future years, cost-of-living increases will be granted that will average $2 \%$ per year.

## Demographic Assumptions

1. Retirement rates - Sample rates are shown below:

Expected Retirements per 100 Lives

| Age | Unreduced Retirement |  |  |  | Reduced Retirement |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males |  | Females |  | Males | Females |
|  | Rule of 80 | Rule of 90 | Rule of 80 | Rule of 90 |  |  |
| Under 50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 51 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 52 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 53 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 54 | 12.0 | 19.5 | 12.5 | 20.0 | 0.0 | 0.0 |
| 55 | 12.0 | 19.5 | 12.5 | 20.0 | 1.0 | 1.5 |
| 56 | 12.0 | 19.5 | 12.5 | 20.0 | 1.8 | 2.0 |
| 57 | 12.0 | 22.0 | 12.5 | 22.5 | 2.0 | 2.3 |
| 58 | 12.0 | 22.0 | 12.5 | 22.5 | 2.3 | 2.5 |
| 59 | 12.0 | 22.0 | 12.5 | 22.5 | 2.5 | 2.8 |
| 60 | 12.0 | 22.0 | 15.0 | 25.0 | 2.8 | 3.0 |
| 61 | 12.0 | 22.0 | 18.0 | 28.0 | 3.0 | 3.5 |
| 62 | 20.0 | 30.0 | 25.0 | 35.0 |  |  |
| 63 | 18.0 | 18.0 | 18.0 | 18.0 |  |  |
| 64 | 16.0 | 16.0 | 16.0 | 16.0 |  |  |
| 65 | 20.0 | 20.0 | 25.0 | 25.0 |  |  |
| 66 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 67 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 68 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 69 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 70 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 71 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 72 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 73 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 74 | 20.0 | 20.0 | 22.5 | 22.5 |  |  |
| 75 and over | 100.0 | 100.0 | 100.0 | 100.0 |  |  |

2. Mortality rates - Active members - RP-2000 Generational Mortality Tables for active employees, males and females separate, projected with Scale AA.

Retirees (non-disabled) and beneficiaries - RP-2000 Generational Mortality Tables for healthy annuitants, males and females separate, projected with Scale AA.

Disabled retirees - RP-2000 Generational Mortality Tables for disabled annuitants, males and females separate, projected with Scale AA.
3. Disability rates: Sample rates are shown below:

|  | Expected Disabilities Occurring <br> per 100 Lives |  |  |
| :---: | :---: | :---: | :---: |
| Age | Male <br> Members | Female <br> Members |  |
|  |  | $(2)$ | $(3)$ |
| 25 |  |  |  |
| 30 | 0.025 | 0.023 |  |
| 35 | 0.025 | 0.023 |  |
| 40 | 0.035 | 0.045 |  |
| 45 | 0.065 | 0.112 |  |
| 50 | 0.100 | 0.180 |  |
| 55 | 0.300 | 0.270 |  |
| 60 | 0.450 | 0.378 |  |
| 65 | 0.175 | 0.378 |  |
|  | 0.000 | 0.000 |  |

Disability rates are applied only for members with 10 or more years of service, since rates were developed based on exposure for this group.
4. Withdrawal Rates: Sample rates are shown below:

Expected Terminations per 100 Lives

| Credited Service <br> (Years) | Males |  | Females |
| :---: | :---: | :---: | :---: |
|  |  | $(2)$ | $(3)$ |
| 0 |  |  |  |
| 1 | 30.00 | 24.00 |  |
| 2 | 14.00 | 12.00 |  |
| 3 | 12.50 | 10.50 |  |
| 4 | 11.00 | 9.00 |  |
| 5 | 9.50 | 8.25 |  |
| 6 | 8.50 | 7.50 |  |
| 7 | 7.50 | 6.75 |  |
| 8 | 6.75 | 6.00 |  |
| 9 | 6.00 | 5.25 |  |
| 10 | 5.25 | 4.50 |  |
| 11 | 4.75 | 4.00 |  |
| 12 | 4.50 | 3.50 |  |
| 13 | 4.00 | 3.25 |  |
| 14 | 3.75 | 3.00 |  |
| 15 | 3.50 | 2.75 |  |
| 16 | 3.25 | 2.50 |  |
| 17 | 3.00 | 2.25 |  |
| 18 | 2.75 | 2.00 |  |
| 19 | 2.50 | 1.75 |  |
| 20 | 2.25 | 1.50 |  |
| 21 | 2.00 | 1.40 |  |
| 22 | 1.75 | 1.30 |  |
| 23 | 1.50 | 1.20 |  |
| 24 | 1.25 | 1.10 |  |
| 25 more | 1.00 | 1.00 |  |
|  | 0.00 | 0.00 |  |

Withdrawal rates are not applied to a member who is eligible for a retirement benefit (reduced or unreduced).

## Other Assumptions

1. Percent married: $80 \%$ of employees are assumed to be married.
2. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
3. Percent electing annuity on death (when eligible): All of the spouses of married participants who die after becoming eligible for a retirement benefit are assumed to elect an annuity, in lieu of the $\$ 18,000$ lump sum and refund.
4. Percent electing deferred termination benefit: vested terminating members are assumed to elect a refund or a deferred benefit, whichever is more valuable at the time of termination.
5. Assumed age for commencement of deferred benefits: Members electing to receive a deferred benefit are assumed to commence receipt at age 62.
6. Administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.
7. Supplemental medical insurance: All members, whether currently active, inactive, or retired, are assumed to be eligible to receive the supplemental insurance benefit, if they have at least 10 years of service credit at retirement.
8. Members who retire with at least 24 years credit are assumed to have 120 days of unused sick leave for which they will receive one year of service credit. This assumption only applies to reduced and unreduced retirement.
9. No assumption was made that current active members employed by the comprehensive universities will elect to transfer out of OTRS.
10. Reemployment, purchase of service, transfers: No recognition is made of (i) future member reimbursements upon reemployment, (ii) future purchase of additional service, or (iii) special transfer provisions.
11. For EESIP eligible employees, if the refund amount to be paid exceeds the additional APV of the enhanced benefit, then the employee does not elect the enhanced benefit.

# Schedule of Increases and Decreases of Benefit Recipients Periods Ended June 30 

|  | Added to Rolls |  | Removed from Rolls |  | Rolls-End of Year |  | \% Increase | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year <br> Ended | No. | Annual Allowances* | No. | Annual Allowances | No. | Annual <br> Allowances | in Annual <br> Allowances | Annual Allowances** |
| 2001 | 2,098 | 40,394,458 | 1,027 | 12,641,988 | 35,188 | 498,928,273 | 5.9\% | 1,231 |
| 2002 | 2,353 | 36,595,970 | 1,030 | 12,303,662 | 36,511 | 523,220,581 | 4.9\% | 1,231 |
| 2003 | 2,630 | 57,537,594 | 1,082 | 10,798,222 | 38,059 | 569,959,953 | 8.9\% | 1,304 |
| 2004 | 2,616 | 49,732,316 | 1,082 | 12,334,953 | 39,593 | 607,357,316 | 6.6\% | 1,315 |
| 2005 | 2,346 | 62,318,530 | 1,060 | 8,518,211 | 40,879 | 661,157,635 | 8.9\% | 1,373 |
| 2006 | 2,060 | 32,777,192 | 1,157 | 7,344,953 | 41,782 | 686,589,874 | 3.8\% | 1,376 |
| 2007 | 2,696 | 48,762,552 | 972 | 8,907,437 | 43,506 | 726,444,989 | 5.8\% | 1,419 |
| 2008 | 2,807 | 46,858,028 | 1,075 | 8,758,271 | 45,238 | 764,544,746 | 5.2\% | 1,437 |
| 2009 | 2,593 | 77,839,485 | 1,035 | 7,161,393 | 46,796 | 835,222,838 | 9.2\% | 1,483 |
| 2010 | 2,906 | 45,628,158 | 946 | 7,952,632 | 48,756 | 872,898,364 | 4.5\% | 1,511 |

* Includes post-retirement increases for members who retired in previous years and changes occurring due to plan options which offer a continuing monthly benefit payment to beneficiaries.
** Does not include special annuitants



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## Section Five: Statistical

## Comprehensive Annual Financial Report

Fiscal Year Ended June 30, 201

Oklahoma Teachers Retirement System

Mission Action Plan
Point Five: Promote an environment of trust and cooperation where Colleagues are encouraged to reach their potential

Oklahoma Teachers Retirement System

## Statistical Section Summary

The Statistical Section presents several schedules that provide financial trends analysis of the Teachers' Retirement System of Oklahoma's overall financial health and additional analytical information on membership data and retirement benefits. The schedules beginning on page 126 through page 135 provide data depicting active membership, level of monthly benefits, years of service, and retirement options. The schedules on page 136 to page 140 provide financial data showing revenues and expenses. On page 141 and page 142 these schedules report the financial impact of retirees in the state of Oklahoma and the participating employers. The source of the information in these schedules is derived from internal information unless otherwise noted.
Retired Members by Type of Benefit
Fiscal Year Ended June 30, 2010

| Amount of | Number of Retired | Type of Retirement * |  |  |  |  |  | Option Selected \# |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Monthly Benefit | Members | 1 | 2 | 3 | 4 | 5 | 6 | Option A | Option B | Option C | Option D | Option E | Option F | Option G |
| \$ 1-\$500 | 6,486 | 3,484 | 2,323 | 271 | 55 | 320 | 34 | 2,806 | 1,673 | 1,213 | 257 | 207 | 296 | 34 |
| 501-1,000 | 8,385 | 5,450 | 1,677 | 553 | 78 | 627 | - | 3,153 | 2,101 | 1,703 | 650 | 192 | 586 | - |
| 1,001-1,500 | 7,906 | 6,687 | 316 | 461 | 19 | 423 | - | 2,711 | 2,002 | 1,915 | 752 | 126 | 400 | - |
| 1,501-2,000 | 12,111 | 11,113 | 368 | 425 | 4 | 201 | - | 3,786 | 3,415 | 3,308 | 1,177 | 225 | 200 | - |
| 2,001-2,500 | 9,471 | 8,981 | 207 | 268 | 3 | 12 | - | 2,888 | 2,423 | 2,814 | 1,087 | 247 | 12 | - |
| 2,501-3,000 | 3,066 | 2,913 | 50 | 101 | - | 2 | - | 1,029 | 701 | 883 | 396 | 55 | 2 | - |
| 3,001-3,500 | 840 | 798 | 28 | 14 | - | - | - | 308 | 187 | 218 | 103 | 24 | - | - |
| 3,501-4,000 | 259 | 241 | 12 | 6 | - | - | - | 101 | 43 | 80 | 30 | 5 | - | - |
| Over 4,000 | 231 | 210 | 14 | 7 | - | - | - | 62 | 35 | 94 | 34 | 6 | - | - |
| Totals | 48,756 | 39,877 | 4,995 | 2,106 | 159 | 1,585 | 34 | 16,844 | 12,580 | 12,228 | 4,486 | 1,087 | 1,496 | 34 |

* Type of Retirement
Type 1 - Normal retirement for age and service
Type 2
Type 3 - Beneficiary payment (Normal retirement)
Type 4 - Beneficiary payment (Early retirement) Type 5 - Disability retirement
Type 6 - Special annuitants
Option A - The Maximum Retirement Plan - provides the greatest monthly lifetime benefit.
Option B - Retirement Option 1 - provides for a decreased rate of reduction of a member's account balance.
Option C - Retirement Option 2 - known as the $100 \%$ joint survivor annuity - provides for a reduced monthly benefit to the member for life. Upon the death of the Option D - Retirement Option 3 - known as the $50 \%$ joint survivor annuity - provides a similar benefit as Option 2 , however, upon the death of the member, the Option E - Retirement Option 4 - provides a reduced monthly benefit payable to the member for life. In the event of the member's death within 120 months from the Option F - Upon meeting requirements, a vested member may receive a monthly benefit.
Option G - Special Annuitants - a former teacher, who taught a minimum of ten years in the public schools of Oklahoma prior to July 1 , 1943 receives a special annuity.


## Average Benefit Payments

Fiscal Years Ended June 30

| Retirement Effective Dates | Years of Credited Service |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35-40 | 40+ |
| Period 7/1/2000 to 6/30/2001 |  |  |  |  |  |  |  |  |
| Average monthly benefit |  | \$410 | \$680 | \$1,187 | \$1,641 | \$1,982 | \$2,326 | \$3,844 |
| Average final average salary |  | \$22,766 | \$26,326 | \$33,206 | \$37,116 | \$39,653 | \$40,789 | \$43,496 |
| Number of retired members |  | 314 | 267 | 361 | 580 | 445 | 105 | 26 |
| Period 7/1/2001 to 6/30/2002 |  |  |  |  |  |  |  |  |
| Average monthly benefit |  | \$442 | \$713 | \$1,181 | \$1,670 | \$1,999 | \$2,356 | \$2,631 |
| Average final average salary |  | \$24,769 | \$28,502 | \$33,217 | \$38,045 | \$39,787 | \$41,533 | \$41,826 |
| Number of retired members |  | 329 | 317 | 421 | 649 | 473 | 124 | 40 |
| Period 7/1/2002 to 6/30/2003 |  |  |  |  |  |  |  |  |
| Average monthly benefit |  | \$478 | \$772 | \$1,249 | \$1,696 | \$2,065 | \$2,399 | \$2,750 |
| Average final average salary |  | \$26,853 | \$29,763 | \$34,707 | \$38,797 | \$40,775 | \$41,913 | \$41,881 |
| Number of retired members |  | 334 | 337 | 444 | 715 | 600 | 167 | 33 |
| Period 7/1/2003 to 6/30/2004 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$306 | \$490 | \$772 | \$1,239 | \$1,700 | \$2,010 | \$2,381 | \$2,796 |
| Average final average salary | \$28,628 | \$28,466 | \$30,699 | \$35,192 | \$38,860 | \$41,194 | \$42,436 | \$43,492 |
| Number of retired members | 99 | 381 | 358 | 433 | 639 | 505 | 153 | 48 |
| Period 7/1/2004 to 6/30/2005 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$314 | \$502 | \$804 | \$1,228 | \$1,731 | \$2,035 | \$2,358 | \$2,915 |
| Average final average salary | \$31,394 | \$28,718 | \$31,363 | \$34,939 | \$40,015 | \$41,648 | \$43,218 | \$46,519 |
| Number of retired members | 94 | 335 | 304 | 467 | 531 | 417 | 150 | 48 |
| Period 7/1/2005 to 6/30/2006 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$311 | \$545 | \$803 | \$1,204 | \$1,729 | \$2,008 | \$2,350 | \$2,944 |
| Average final average salary | \$28,873 | \$30,160 | \$31,960 | \$34,350 | \$39,703 | \$42,053 | \$42,948 | \$47,656 |
| Number of retired members | 112 | 275 | 325 | 403 | 475 | 328 | 107 | 35 |
| Period 7/1/2006 to 6/30/2007 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$289 | \$548 | \$844 | \$1,319 | \$1,825 | \$2,205 | \$2,692 | \$3,033 |
| Average final average salary | \$27,920 | \$31,084 | \$33,123 | \$37,294 | \$41,634 | \$45,283 | \$48,400 | \$50,850 |
| Number of retired members | 145 | 318 | 349 | 453 | 601 | 490 | 260 | 80 |
| Period 7/1/2007 to 6/30/2008 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$331 | \$558 | \$897 | \$1,294 | \$1,846 | \$2,243 | \$2,767 | \$3,535 |
| Average final average salary | \$31,448 | \$32,300 | \$34,616 | \$36,877 | \$42,274 | \$46,606 | \$50,852 | \$56,650 |
| Number of retired members | 155 | 324 | 346 | 512 | 568 | 528 | 271 | 103 |
| Period 7/1/2008 to 6/30/2009 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$366 | \$610 | \$955 | \$1,360 | \$1,896 | \$2,319 | \$3,073 | \$3,839 |
| Average final average salary | \$35,522 | \$34,547 | \$36,411 | \$38,874 | \$44,043 | \$49,044 | \$55,906 | \$65,221 |
| Number of retired members | 135 | 302 | 324 | 497 | 502 | 465 | 234 | 134 |
| Period 7/1/2009 to 6/30/2010 |  |  |  |  |  |  |  |  |
| Average monthly benefit | \$365 | \$613 | \$952 | \$1,365 | \$1,895 | \$2,319 | \$3,074 | \$3,850 |
| Average final average salary | \$35,555 | \$34,709 | \$36,329 | \$38,995 | \$44,020 | \$49,040 | \$55,956 | \$65,319 |
| Number of retired members | 135 | 299 | 321 | 496 | 499 | 465 | 232 | 133 |

## Principal Participating Employers Current Year and Nine Years Ago

| Participating School | Fiscal Year 2010 |  |  | Fiscal Year 2001 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Covered <br> Members | Rank | Percentage of Total System | Covered <br> Members | Rank | Percentage of Total System |
| Oklahoma City Public Schools | 4,533 | 1 | 5.06\% | 4,758 | 1 | 5.63\% |
| Tulsa Public Schools | 3,922 | 2 | 4.36\% | 3,885 | 2 | 4.60\% |
| Oklahoma State University | 3,786 | 3 | 4.21\% | 3,761 | 3 | 4.46\% |
| University of Oklahoma | 2,522 | 4 | 2.81\% | 2,921 | 4 | 3.46\% |
| Edmond Public Schools | 2,397 | 5 | 2.67\% | 1,846 | 7 | 2.19\% |
| Moore Public Schools | 2,303 | 6 | 2.56\% | 1,901 | 6 | 2.25\% |
| OU Health Sciences Center | 1,907 | 7 | 2.12\% | 1,944 | 5 | 2.30\% |
| Lawton Public Schools | 1,742 | 8 | 1.94\% | 1,474 | 10 | 1.75\% |
| Mid-Del Public Schools | 1,701 | 10 | 1.89\% | 1,608 | 8 | 1.91\% |
| Putnam City Public Schools | 1,585 | 9 | 1.76\% | 1,569 | 9 | 1.86\% |
| * All Other | 63,498 |  | 70.63\% | 58,724 |  | 69.59\% |
| Total (627 Schools) | 89,896 |  | 100.00\% | 84,391 |  | 100.00\% |


| *In Fiscal Year 2010, "all other " consisted of: |  |  |
| :--- | :---: | ---: |
|  | Participating |  |
| Type | $\underline{\text { Employers }}$ | $\underline{\text { Members }}$ |
| School Districts | 528 | 49,498 |
| Higher Education | 23 | 8,618 |
| Career Technology | 28 | 3,740 |
| State Agencies | 30 | 1,429 |
| Other | $\underline{8}$ | $\underline{213}$ |
|  |  |  |
| Total | 617 | 63,498 |

## Schedule of Average Payment Amounts Fiscal Year Ended June 30, 2010

| Date | Regular <br> Annuitants |
| :--- | ---: |
| June 30, 1948 | 33 |
| June 30, 1954 | 75 |
| June 30, 1960 | 83 |
| June 30, 1970 | 179 |
| June 30, 1971 | 201 |
| June 30, 1972 | 209 |
| June 30, 1973 | 217 |
| June 30, 1974 | 226 |
| June 30, 1975 | 248 |
| June 30, 1976 | 297 |
| June 30, 1977 | 321 |
| June 30, 1978 | 345 |
| June 30, 1979 | 365 |
| June 30, 1980 | 382 |
| June 30, 1981 | 432 |
| June 30, 1982 | 480 |
| June 30, 1983 | 592 |
| June 30, 1984 | 600 |
| June 30, 1985 | 600 |
| June 30, 1986 | 761 |
| June 30, 1987 | 837 |
| June 30, 1988 | 907 |


| Date | Regular <br> Annuitants | Special <br> Annuitants |
| :--- | ---: | ---: |
| June 30, 1989 | 949 | 159 |
| June 30, 1990 | 956 | 159 |
| June 30, 1991 | 1,013 | 159 |
| June 30, 1992 | 1,021 | 159 |
| June 30, 1993 | 1,030 | 159 |
| June 30, 1994 | 1,044 | 159 |
| June 30, 1995 | 1,084 | 163 |
| June 30, 1996 | 1,093 | 163 |
| June 30, 1997 | 1,105 | 163 |
| June 30, 1998 | 1,119 | 163 |
| June 30, 1999 | 1,187 | 172 |
| June 30, 2000 | 1,199 | 172 |
| June 30, 2001 | 1,231 | 175 |
| June 30, 2002 | 1,246 | 175 |
| June 30, 2003 | 1,304 | 175 |
| June 30, 2004 | 1,304 | 180 |
| June 30, 2005 | 1,373 | 187 |
| June 30, 2006 | 1,376 | 191 |
| June 30, 2007 | 1,419 | 191 |
| June 30, 2008 | 1,437 | 191 |
| June 30, 2009 | 1,483 | 194 |
| June 30, 2010 | 1,511 | 195 |

Note that figures after June 30, 1989 do not include monthly medical premium.


## Active Personnel <br> Fiscal Year Ended June 30, 2010

| Years of <br> Service | All Active <br> Personnel | Classified <br> Personnel | Unclassified |
| :---: | :---: | :---: | :---: |
| Personnel |  |  |  |


| Under 5 years | 26,985 | 15,020 | 11,965 |
| :--- | ---: | ---: | ---: |
| $5-9$ | 18,945 | 12,106 | 6,839 |
| $10-14$ | 14,618 | 10,015 | 4,603 |
| $15-19$ | 10,587 | 7,730 | 2,857 |
| $20-24$ | 8,303 | 5,992 | 2,311 |
| $25-29$ | 5,397 | 4,493 | 904 |
| $30-34$ | 3,344 | 3,094 | 250 |
| $35-39$ | 1,390 | 1,330 | 60 |
| $40-44$ | 291 | 271 | 20 |
| $45-49$ | 30 | 29 | 1 |
| $50-54$ | 6 | 6 | 0 |
| Totals | 89,896 | 60,086 | 29,810 |


|  | All Active <br> Personnel | Classified <br> Personnel | Unclassified |
| :---: | :---: | :---: | :---: |
| Pary Range | Personnel |  |  |


| $0-\$ 5,000$ | 530 | 262 | 268 |
| :--- | ---: | ---: | ---: |
| $5001-10,000$ | 1,452 | 244 | 1,208 |
| $10,001-15,000$ | 5,305 | 323 | 4,982 |
| $15,001-20,000$ | 5,104 | 793 | 4,311 |
| $20,001-25,000$ | 4,237 | 737 | 3,500 |
| $25,001-30,000$ | 3,684 | 615 | 3,069 |
| $30,001-35,000$ | 9,306 | 6,570 | 2,736 |
| $35,001-40,000$ | 16,855 | 14,272 | 2,583 |
| $40,001-45,000$ | 13,571 | 11,686 | 1,885 |
| $45,001-50,000$ | 8,572 | 7,300 | 1,272 |
| $50,001-55,000$ | 5,440 | 4,489 | 951 |
| $55,001-60,000$ | 3,387 | 2,635 | 752 |
| $60,001-65,000$ | 2,350 | 1,829 | 521 |
| $65,001-70,000$ | 2,049 | 1,634 | 415 |
| $70,001-75,000$ | 1,577 | 1,277 | 300 |
| 75,001 and Above | 6,477 | 5,420 | 1,057 |
| Totals | 89,896 | 60,086 | 29,810 |
|  | 44.5 | 43.6 | 46.3 |
| Average Age (years) | $\$ 42,880$ | 11.5 | $\$ 48,891$ |

## Schedule of Retired Members by Type of Benefits <br> Selected Plan Options

Fiscal Year Ended June 30, 2010

|  |  |  |  | Average <br> Monthly <br> Payment | \% of <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Retired Members |  |  |  |  |
| Option | Male | Female | Total |  |  |
|  |  |  |  |  |  |
| Maximum | 3,532 | 13,257 | 16,789 | \$1,501 | 34\% |
| Option 1 | 2,943 | 9,637 | 12,580 | 1,497 | 26\% |
| Option 2 | 5,931 | 4,657 | 10,588 | 1,819 | 22\% |
| Option 3 | 1,789 | 2,126 | 3,915 | 1,992 | 8\% |
| Option 4 | 336 | 718 | 1,054 | 1,463 | 2\% |
| Options 5, 6 \& 7 | 1,843 | 401 | 2,244 | 1,325 | 5\% |
| Disability | 386 | 1,166 | 1,552 | 978 | 3\% |
| Special Annuitants | 1 | 33 | 34 | 194 | 0\% |
|  |  |  |  |  |  |
| Totals | 16,761 | 31,995 | 48,756 | \$1,511 | 100\% |

Average monthly payment is $\$ 1,511$ excluding special annuitants


Maximum - provides for the greatest possible benefit.
Option 1 - provides for a decreased rate of reduction of member's account balance.
Option 2 - provides for a reduced monthly benefit to the member for life. Upon death of the member, the designated beneficiary will continue to receive the same monthly benefit for life.

Option 3 - provides a similar benefit as Option 2, however, upon death of the member, the monthly benefit to the designated beneficiary is one-half of the benefit of the member.

Option 4 - provides a reduced monthly benefit. In the event of the member's death within 120 months from the date of retirement, the balance of the payments are continued to the beneficiary designated at the time of retirement.

Options 5, 6 \& 7 - represents beneficiaries of options 2, $3 \& 4$.
Disability - upon meeting requirements, a vested member may receive a monthly benefit.
Special Annuitants - a former teacher, who taught a minimum of ten years in the public schools of Oklahoma prior to July 1, 1943.

Distribution by Years of Service
Fiscal Year Ended June 30, 2010

| Years of Creditable Service |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Retired Members |  |  |  |
|  | Male | Female | Total |  |
| Under 10 | 363 | 529 | 892 | \$341 |
| 10-14 | 1,755 | 4,193 | 5,948 | 472 |
| 15-19 | 1,759 | 4,292 | 6,051 | 773 |
| 20-24 | 2,091 | 6,778 | 8,869 | 1,236 |
| 25-29 | 3,816 | 8,182 | 11,998 | 1,739 |
| 30-34 | 4,025 | 5,662 | 9,687 | 2,097 |
| 35-39 | 2,011 | 1,805 | 3,816 | 2,455 |
| 40-44 | 825 | 504 | 1,329 | 2,842 |
| 45-49 | 101 | 45 | 146 | 3,432 |
| 50 and Over | 14 | 6 | 20 | 3,831 |
|  |  |  |  |  |
| Totals | 16,760 | 31,996 | 48,756 | \$1,511 |

Does not include 34 special annuitants.


## Distribution by Age at Retirement <br> Fiscal Year Ended June 30, 2010



| 40 and Under | 18 | 48 | 66 | $\$ 682$ | 13.3 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| $41-45$ | 42 | 120 | 162 | 909 | 16.1 |
| $46-50$ | 353 | 656 | 1,009 | 1,645 | 25.2 |
| $51-55$ | 4,909 | 7,687 | 12,596 | 1,776 | 27.3 |
| $56-60$ | 4,612 | 10,548 | 15,160 | 1,534 | 25.3 |
| $61-65$ | 5,608 | 11,015 | 16,623 | 1,323 | 23.0 |
| $66-70$ | 1,003 | 1,599 | 2,602 | 1,383 | 22.7 |
| $71-75$ | 170 | 249 | 419 | 1,163 | 21.8 |
| $76-80$ | 39 | 62 | 101 | 1,091 | 21.7 |
| Over 80 | 6 | 12 | 18 | 643 | 18.9 |


| Totals | 16,760 | 31,996 | 48,756 | $\$ 1,511$ | 24.8 |
| :--- | ---: | ---: | ---: | ---: | ---: |

*Does not include 34 special annuitants.
**The average age of members at retirement is 58.8.


## Distribution by Retiree Age

Fiscal Year Ended June 30, 2010

|  | Total | Average | Average |
| :---: | :---: | :---: | :---: |
| Retired | Length of | Monthly |  |
| Members | Service | Payment |  |


| Under 50 | 93 | 14.5 | $\$ 879$ |
| :--- | ---: | ---: | ---: |
| $50-54$ | 908 | 25.3 | 1,842 |
| $55-59$ | 4,511 | 26.6 | 1,792 |
| $60-64$ | 10,251 | 25.7 | 1,719 |
| $65-69$ | 10,739 | 24.3 | 1,560 |
| $70-74$ | 8,143 | 23.8 | 1,426 |
| $75-79$ | 6,131 | 23.6 | 1,312 |
| $80-84$ | 4,040 | 24.7 | 1,274 |
| $85-89$ | 2,401 | 25.8 | 1,202 |
| Over 90 | 1,539 | 29.9 | 1,150 |


| Totals | 48,756 | 24.8 | $\$$ | 1,511 |
| :--- | :--- | :--- | :--- | :--- |

*Does not include 34 special annuitants.
**Average age of retired members is 69.7 years.


## Distribution by Monthly Income

Fiscal Year Ended June 30, 2010

| Monthly <br> Income | Retired |  | Average <br> Members |
| :---: | :---: | :---: | :---: |
| Total | Payment |  |  |


| Under $\$ 100$ | 59 | 5,061 | $\$ 86$ |
| :--- | ---: | ---: | ---: |
| $\$ 101-\$ 500$ | 6,393 | $2,106,499$ | 330 |
| $\$ 501-\$ 1,000$ | 8,385 | $6,148,897$ | 733 |
| $\$ 1,001-\$ 1,500$ | 7,906 | $10,038,300$ | 1,270 |
| $\$ 1,501-\$ 2,000$ | 12,146 | $21,446,043$ | 1,766 |
| $\$ 2,001-\$ 2,500$ | 9,471 | $20,930,414$ | 2,210 |
| $\$ 2,501-\$ 3,000$ | 3,066 | $8,257,039$ | 2,693 |
| $\$ 3,001-\$ 3,500$ | 840 | $2,689,740$ | 3,202 |
| $\$ 3,501-\$ 4,000$ | 259 | 954,482 | 3,685 |
| Over $\$ 4,000$ | 231 | $1,170,412$ | 5,067 |


| Totals | 48,756 | $\$ 73,746,887$ | $\$ 1,511$ |
| :--- | ---: | ---: | ---: |

Does not include 34 special annuitants.


# Teachers' Retirement System of Oklahoma Schedule of Cash Receipts and Disbursements Years Ended June 30, 2010 and 2009 401 (a) Plan 

|  | $\underline{2010}$ | $\underline{2009}$ |
| :--- | :--- | :--- |
| Cash balance, beginning of year | $\$ 6,340,103$ | $\$ 2,124,625$ |

Receipts:

| Members' contributions | 292,265,913 | 288,049,674 |
| :---: | :---: | :---: |
| Member tax-shelter | 1,265,336 | 8,678,472 |
| Employer statutory requirement from local school |  |  |
| Matching funds | 26,647,129 | 22,061,342 |
| Dedicated revenue | 227,570,042 | 262,803,238 |
| Interest income | 165,886,364 | 144,560,463 |
| Dividends | 100,443,110 | 87,631,070 |
| Net gain (loss) on investments | 475,078,773 | $(1,260,996,957)$ |
| Other revenue | $(3,159,647)$ | $(2,197,769)$ |
| Investments sold | 28,041,236,909 | 25,732,709,649 |
| Total receipts | $\underline{29,693,419,294}$ | $\underline{25,618,599,356}$ |
| Disbursements: |  |  |
| Retirement, death, survivor, and health benefits | 968,866,908 | 871,715,395 |
| Refund of member contributions and annuity payments | 51,304,576 | 75,692,945 |
| Administrative expenses | 4,956,377 | 5,153,491 |
| Investment expenses | 31,193,846 | 26,772,897 |
| Equipment purchases | 0 | 63,222 |
| Investment purchases | 28,633,791,311 | 24,634,985,929 |
| Total disbursements | 29,690,113,018 | 25,614,383,878 |
| Balance of cash, June 30 | \$9,646,379 | \$6,340,103 |

[^4]Schedule of Changes in Net Assets
For Periods Ended June 30





## Schedule of Revenue by Source For Periods Ended June 30

|  |  |  |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\underline{\text { Year }}$ |  | Member <br> Contributions | Employer <br> Contributions | State of <br> Oklahoma and <br> Various | Grant Sources | Investment <br> Income | Other | $\underline{\text { Revenue }}$ |

*     - Investment income includes both realized and unrealized gains and losses on investments.



## Schedule of Expenses by Type For Periods Ended June 30

| Year | Benefits | Refunds and <br> Annuity Payments | Administrative <br> Expenses | Total |
| :--- | :--- | ---: | ---: | :--- |
| 2001 | $537,308,002$ | $65,763,326$ | $3,471,796$ | $606,543,124$ |
| 2002 | $561,222,392$ | $58,495,950$ | $3,905,754$ | $623,624,096$ |
| 2003 | $608,976,125$ | $73,563,552$ | $4,007,846$ | $686,547,523$ |
| 2004 | $647,277,986$ | $52,327,030$ | $3,851,320$ | $703,456,336$ |
| 2005 | $701,715,390$ | $44,060,265$ | $4,212,266$ | $749,987,921$ |
| 2006 | $727,379,279$ | $52,902,064$ | $4,425,007$ | $784,706,350$ |
| 2007 | $767,212,709$ | $57,378,925$ | $4,549,159$ | $829,140,793$ |
| 2008 | $806,540,725$ | $63,925,592$ | $4,791,118$ | $875,257,435$ |
| 2009 | $876,273,193$ | $75,692,946$ | $5,216,493$ | $957,182,632$ |
| 2010 | $912,912,714$ | $51,304,576$ | $4,979,589$ | $969,196,879$ |

2010 Expenses


Schedule of Benefit Expenses by Type For Periods Ended June 30


## Retirees in the State of Oklahoma by County

Of the 48,756 pensioners and beneficiaries in the Teachers' Retirement System of Oklahoma $88 \%$ or 42,623 remain state of Oklahoma residents. As such, benefit payments of approximately, \$772,099,215 this year alone went into the State's communities and businesses. Since money changes hands several times, the System's payments have a dramatic effect on the State's economy.

| County | Recipients | Annual <br> Payment | County | Recipients |  | Annual <br> Payment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adair | 322 | \$ 6,043,677 | LeFlore | 656 | \$ | 11,870,130 |
| Alfalfa | 109 | 2,062,205 | Lincoln | 362 |  | 6,028,095 |
| Atoka | 190 | 3,322,777 | Logan | 384 |  | 6,385,163 |
| Beaver | 86 | 1,471,492 | Love | 93 |  | 1,510,716 |
| Beckham | 246 | 4,372,840 | Major | 97 |  | 1,605,971 |
| Blaine | 158 | 2,762,044 | Marshall | 224 |  | 4,035,198 |
| Bryan | 674 | 12,279,028 | Mayes | 472 |  | 8,751,343 |
| Caddo | 452 | 7,485,552 | McClain | 456 |  | 7,582,500 |
| Canadian | 1071 | 19,657,161 | McCurtain | 520 |  | 9,358,406 |
| Carter | 609 | 10,638,781 | McIntosh | 367 |  | 6,694,939 |
| Cherokee | 848 | 16,357,359 | Murray | 183 |  | 3,519,270 |
| Choctaw | 206 | 3,642,311 | Muskogee | 1025 |  | 18,949,377 |
| Cimarron | 36 | 629,203 | Noble | 126 |  | 2,040,143 |
| Cleveland | 2660 | 49,079,434 | Nowata | 72 |  | 1,217,530 |
| Coal | 67 | 1,256,989 | Okfuskee | 175 |  | 2,767,276 |
| Comanche | 1280 | 23,860,753 | Oklahoma | 7367 |  | 135,321,417 |
| Cotton | 76 | 1,269,211 | Okmulgee | 628 |  | 11,003,837 |
| Craig | 184 | 3,203,581 | Osage | 167 |  | 2,809,729 |
| Creek | 640 | 11,109,417 | Ottawa | 594 |  | 9,646,477 |
| Custer | 470 | 8,951,743 | Pawnee | 173 |  | 2,711,611 |
| Delaware | 330 | 6,228,169 | Payne | 1854 |  | 33,912,709 |
| Dewey | 111 | 2,019,591 | Pittsburg | 554 |  | 9,544,616 |
| Ellis | 54 | 874,550 | Pontotoc | 700 |  | 13,055,982 |
| Garfield | 645 | 11,569,814 | Pottawatomie | 711 |  | 12,540,139 |
| Garvin | 387 | 6,589,919 | Pushmataha | 164 |  | 2,835,656 |
| Grady | 521 | 9,008,575 | Roger Mills | 76 |  | 1,307,592 |
| Grant | 80 | 1,388,100 | Rogers | 769 |  | 14,278,434 |
| Greer | 84 | 1,555,138 | Seminole | 321 |  | 5,410,288 |
| Harmon | 78 | 1,344,394 | Sequoyah | 529 |  | 9,842,685 |
| Harper | 79 | 1,508,691 | Stephens | 602 |  | 11,079,077 |
| Haskell | 209 | 3,812,639 | Texas | 195 |  | 3,453,616 |
| Hughes | 166 | 2,904,278 | Tillman | 114 |  | 2,012,005 |
| Jackson | 329 | 6,736,787 | Tulsa | 5539 |  | 103,424,785 |
| Jefferson | 74 | 1,270,204 | Wagoner | 344 |  | 6,540,516 |
| Johnston | 228 | 4,013,060 | Washington | 569 |  | 9,430,770 |
| Kay | 551 | 9,343,943 | Washita | 157 |  | 2,771,728 |
| Kingfisher | 175 | 3,145,888 | Woods | 238 |  | 4,424,328 |
| Kiowa | 163 | 2,734,601 | Woodward | 205 |  | 3,684,234 |
| Latimer | 193 | 3,237,026 |  |  |  |  |
|  |  |  | Total | $\underline{42,623}$ | \$ | 772,099,215 |

## 2010 Participating Employers Public School Districts

| Achille | Bowlegs | Cimarron | El Reno |
| :---: | :---: | :---: | :---: |
| Ada | Bowring | Claremore | Eldorado |
| Adair | Boynton-Moton | Clayton | Elgin |
| Afton | Braggs | Cleora | Elk City |
| Agra | Braman | Cleveland | Elmore City |
| Albion | Bray-Doyle | Clinton | Empire |
| Alex | Bridge Creek | Coalgate | Enid |
| Aline Cleo | Briggs | Colbert | Erick |
| Allen | Bristow | Colcord | Eufaula |
| Allen-Bowden | Broken Arrow | Coleman | Fairland |
| Altus | Broken Bow | Collinsville | Fairview |
| Alva | Brushy | Comanche | Fanshawe |
| Amber-Pocasset | Buffalo | Commerce | Fargo |
| Anadarko | Buffalo Valley | Copan | Farris |
| Anderson | Burlington | Cordell | Felt |
| Antlers | Burns Flat-Dill City | Cottonwood | Fletcher |
| Arapaho-Butler | Butner | Covington-Douglas | Flower Mound |
| Ardmore | Byars | Coweta | Forest Grove |
| Arkoma | Byng | Coyle | Forgan |
| Arnett | Cache | Crescent | Fort Cobb-Broxton |
| Asher | Caddo | Crooked Oak | Fort Gibson |
| Atoka | Calera | Crowder | Fort Supply |
| Avant | Calumet | Crutcho | Fort Towson |
| Balko | Calvin | Cushing | Fox |
| Banner | Cameron | Cyril | Foyil |
| Barnsdall | Canadian | Dahlonegah | Frederick |
| Bartlesville | Caney | Dale | Freedom |
| Battiest | Caney Valley | Darlington | Friend |
| Bearden | Canton | Davenport | Frink-Chambers |
| Beaver | Canute | Davidson | Frontier |
| Beggs | Carnegie | Davis | Gage |
| Belfonte | Carney | Deer Creek | Gans |
| Bennington | Cashion | Deer Creek-Lamont | Garber |
| Berryhill | Catoosa | Denison | Geary |
| Bethany | Cave Springs | Depew | Geronimo |
| Bethel | Cement | Dewar | Glencoe |
| Big Pasture | Central High | Dewey | Glenpool |
| Billings | Central | Dibble | Glover |
| Binger-Oney | Chandler | Dickson | Goodwell |
| Bishop | Chattanooga | Dover | Gore |
| Bixby | Checotah | Drummond | Gracemont |
| Blackwell | Chelsea | Drumright | Graham |
| Blair | Cherokee | Duke | Grand View |
| Blanchard | Cheyenne | Duncan | (Cherokee) |
| Bluejacket | Chickasha | Durant | Grandfield |
| Boise City | Chisholm | Dustin | Grandview (Stephens) |
| Bokoshe | Choctaw/Nicoma | Eagletown | Granite |
| Boone-Apache | Park | Earlsboro | Grant |
| Boswell | Chouteau-Mazie | Edmond | Greasy |

Public School Districts (continued)

| Greenville | Keys | Meeker | Oktaha |
| :---: | :---: | :---: | :---: |
| Grove (Delaware) | Keystone | Merritt | Olive |
| Grove (Pottawatomie) | Kiefer | Miami | Olustee |
| Guthrie | Kildare | Mid-Del | Oologah-Talala |
| Guymon | Kingfisher | Middleberg | Optima |
| Gypsy | Kingston | Midway | Osage Hills |
| Haileyville | Kinta | Milburn | Osage |
| Hammon | Kiowa | Milfay | Center |
| Hanna | Konawa | Mill Creek | Owasso |
| Hardesty | Krebs | Millwood | Paden |
| Harmony | Kremlin-Hillsdale | Minco | Panama |
| Harrah | Lane | Moffett | Panola |
| Hartshorne | Laverne | Monroe | Paoli |
| Haskell | Lawton | Moore | Pauls Valley |
| Haworth | Leach | Mooreland | Pawhuska |
| Haywood | Leedey | Morris | Pawnee |
| Healdton | Leflore | Morrison | Peavine |
| Heavener | Lexington | Moseley | Peckham |
| Hennessey | Liberty (Sequoyah) | Moss | Peggs |
| Henryetta | Liberty (Tulsa) | Mounds | Perkins Tryon |
| Hilldale | Lindsay | Mountain View- | Perry |
| Hinton | Little Axe | Gotebo | Pickett-Center |
| Hobart | Locust Grove | Moyers | Piedmont |
| Hodgen | Lomega | Muldrow | Pioneer |
| Holdenville | Lone Grove | Mulhall-Orlando | Pioneer-Pleasant Vale |
| Hollis | Lone Star | Muskogee | Pittsburg |
| Holly Creek | Lone Wolf | Mustang | Plainview (Carter) |
| Hominy | Lookeba-Sickles | Nashoba | Plainview (Cimarron) |
| Hooker | Lowrey | Navajo | Pleasant Grove |
| Howe | Lukfata | New Lima | (Pottawatomie) |
| Hugo | Luther | Newcastle | Pleasant Grove |
| Hulbert | Macomb | Newkirk | (Seminole) |
| Hydro-Eakly | Madill | Ninnekah | Pocola |
| Idabel | Mangum | Noble | Ponca City |
| Indiahoma | Mannford | Norman | Pond Creek |
| Indianola | Mannsville | North Rock Creek | Porter Consolidated |
| Inola | Maple | Norwood | Porum |
| Jay | Marble City | Nowata | Poteau |
| Jenks | Marietta | Oak Grove | Prague |
| Jennings | Marlow | Oakdale | Preston |
| Jones | Maryetta | Oaks Mission | Pretty Water |
| Justice | Mason | Oilton | Prue |
| Justus-Tiawah | Maud | Okarche | Pryor |
| Kansas | Maysville | Okay | Purcell |
| Kellyville | McAlester | Okeene | Putnam City |
| Kenwood | McCord | Okemah | Quapaw |
| Keota | McCurtain | Oklahoma City | Quinton |
| Ketchum | McLoud | Oklahoma Union | Rattan |
| Keyes | Medford | Okmulgee | Ravia |

Public School Districts (continued)

| Red Oak | Stonewall | Walters | Eastern Okla County |
| :---: | :---: | :---: | :---: |
| Reydon | Straight | Wanette | Francis Tuttle |
| Ringling | Stratford | Wapanucka | Gordon Cooper |
| Ringwood | Stringtown | Warner | Great Plains |
| Ripley | Strother | Washington | Green Country |
| Riverside | Stroud | Watonga | High Plains |
| Robin Hill | Stuart | Watts | Indian Capitol |
| Rock Creek | Sulphur | Waukomis | Kiamichi |
| Rocky Mountain | Sweetwater | Waurika | Meridian |
| Roff | Swink | Wayne | Metro Tech |
| Roland | Tahlequah | Waynoka | Mid-America |
| Rush Springs | Talihina | Weatherford | Moore-Norman |
| Ryal | Taloga | Webbers Falls | Northeast Area |
| Ryan | Tannehill | Welch | Northwest |
| Salina | Tecumseh | Weleetka | Autry |
| Sallisaw | Temple | Wellston | Pioneer |
| Sand Springs | Tenkiller | Western Heights | Pontotoc |
| Sapulpa | Terral | Westville | Red River |
| Sasakwa | Texhoma | Wetumka | Southern Okla |
| Savanna | Thackerville | Wewoka | Southwest |
| Sayre | Thomas-Fay-Custer | White Oak | Tri County |
| Schulter | Timberlake | White Rock | Tulsa |
| Seiling | Tipton | Whitebead | Wes Watkins |
| Seminole | Tishomingo | Whitefield | Western |
| Sentinel | Tonkawa | Whitesboro |  |
| Sequoyah | Tulsa | Wickliffe | Colleges and |
| Shady Grove | Tupelo | Wilburton | Universities |
| Shady Point | Turkey Ford | Wilson (Carter) | Cameron University |
| Sharon Mutual | Turner | Wilson (Okmulgee) | East Central State |
| Shattuck | Turpin | Wister | University |
| Shawnee | Tushka | Woodall | Langston University |
| Shidler | Tuskahoma | Woodland | NE State Univ |
| Silo | Tuttle | Woodward | NW Okla State Univ |
| Skelly | Twin Hills | Wright City | Okla State Univ |
| Skiatook | Tyrone | Wyandotte | Okla Panhandle St |
| Smithville | Union City | Wynnewood | Univ |
| Snyder | Union | Wynona | OU Health Sciences |
| Soper | Valliant | Yale | Rogers State |
| South Coffeyville | Vanoss | Yarbrough | University |
| South Rock Creek | Varnum | Yukon | SE Okla State Univ |
| Spavinaw | Velma Alma | Zaneis | SW Okla State Univ |
| Sperry | Verden | Zion | Univ of Central Okla |
| Spiro | Verdigris |  | Univ of Oklahoma |
| Springer | Vian | Career and |  |
| Sterling | Vici | Technology Centers | Arts |
| Stidham | Vinita | Caddo-Kiowa |  |
| Stigler | Wagoner | Canadian Valley | Junior Colleges |
| Stillwater | Wainwright | Central Oklahoma | Carl Albert State |
| Stilwell | Wakita | Chisholm Trail | College |

# Public School Districts (continued) 

| Connors State College | Kipp Reach College |
| :---: | :---: |
| Eastern Oklahoma | Prep |
| State Murray State | Mid-Del Act |
| College | Moore Act |
| NE Okla A\&M | OKC Federation |
| College | Teachers |
| N Oklahoma College | Okla Education Assoc |
| OKC Community |  |
| College | Math |
| Redlands Comm. | Okla Student Loan |
| College | Auth |
| Rose State College | Osage County |
| Seminole State | Interlocal |
| College | Quartz Mountain |
| Tulsa Community | Secondary Activity |
| College | Assoc |
| W Okla State College | S E Oklahoma |
|  | Interlocal |
|  | Street School |
| Other Participating | Teachers Retirement |
| Entities | Sys |
| Atoka/Coal Interlocal | Tri-County Interlocal |
| Ardmore HED Center |  |
| Bd of Priv Voc | Sci |
| Schools | Western Village |
| Bd of Reg for Higher | Charter |
| Ed |  |
| Bd of Reg of Ok |  |
| College |  |
| C COSA |  |
| Cherokee City |  |
| Interlocal Choctaw |  |
| Nation Interlocal |  |
| Comm. On Teachers |  |
| Prep |  |
| Deborah Brown |  |
| Comm. |  |
| Dept of Corrections |  |
| Dept of Education |  |
| Dept of Rehab |  |
| Service |  |
| Five Star Interlocal |  |
| Coop |  |
| Garfield Co Interlocal |  |
| Harding Charter Prep |  |
| Harding Fine Arts |  |
| Independence Chrtr |  |
| M.S. |  |


[^0]:    Executive Director
    TEACHERS RETIREMENT SYSTEM OF OKLAHOMA
    James R. Wilbanks, Ph.D.

[^1]:    (Continued on Reverse Side)

[^2]:    ${ }^{1}$ Benefit amounts exclude the supplemental medical insurance payment.

[^3]:    Column (7) $=$ Column (2) + Column (6).

[^4]:    * Includes equities, fixed income and short-term investments.

