JUDGES' RETIREMENT SYSTEM OF THE STATE OF ILLINOIS

FINANCIAL REPORT YEAR ENDED JUNE 30, 2017

PERFORMED AS SPECIAL ASSISTANT AUDITORS FOR THE AUDITOR GENERAL, STATE OF ILLINOIS



Judges' Retirement System of the State of Illinois

Financial Audit

For the Year Ended June 30, 2017

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Judges' Retirement System of the State of Illinois

Financial Statement Report June 30, 2017

System Officials

Executive Secretary
Accounting Division Manager
Division Manager
Internal Audit

Timothy B. Blair Alan Fowler, CPA Jayne Waldeck Casey Evans

Office Locations

Springfield Office 2101 South Veterans Parkway P.O. Box 19255 Springfield, Illinois 62794-9255

Chicago Office
State of Illinois Building
160 North LaSalle Street, Suite N725
Chicago, Illinois 60601

Summary

The audit of the accompanying financial statements of the Judges' Retirement System of the State of Illinois (System) was performed by RSM US LLP.

Based on their audit and the report of other auditors, the auditors expressed an unmodified opinion on the System's basic financial statements.



Independent Auditor's Report

RSM US LLP

Honorable Frank J. Mautino, Auditor General – State of Illinois

Board of Trustees, Judges' Retirement System of the State of Illinois

Report on the Financial Statements

As Special Assistant Auditors for the Auditor General, we have audited the accompanying Statement of Fiduciary Net Position of the Judges' Retirement System of the State of Illinois (System), as of June 30, 2017, and the Statement of Changes in Fiduciary Net Position for the year then ended, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We did not audit the 2017 financial statements of the Illinois State Board of Investment, an internal investment pool of the State of Illinois, which statements represent 95 percent, 96 percent and 40 percent respectively of total assets, net position restricted for pension benefits, and total additions of the System. Those financial statements were audited by other auditors whose report thereon has been furnished to us, and our opinion, insofar as it relates to the amounts included for the Illinois State Board of Investment is based solely on the report of other auditors. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, based on our audit and the report of other auditors, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the System as of June 30, 2017, and the changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matter

The actuarially determined pension liability, calculated as required by GASB Statement No. 67, is dependent on several assumptions including the assumption that future required contributions from State sources are made based on statutory requirements in existence as of the date of this report. These assumptions are discussed in Note 6 of the financial statements on pages 24 through 26. Our opinion is not modified with respect to this matter.

Other Matters

Required Supplementary Information:

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis on pages 4 through 6 and the required supplementary information as listed in the table of contents on pages 28 through 31 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We, and other auditors, have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information:

Our audit for the year ended June 30, 2017 was conducted for the purpose of forming an opinion on the System's basic financial statements. The supplementary financial information, as listed in the table of contents, is presented for purposes of additional analysis and are not a required part of the basic financial statements.

The supplementary financial information, as listed in the table of contents, for the year ended June 30, 2017 is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements for the year ended June 30, 2017 and certain additional procedures, including comparing and reconciling such information directly to underlying accounting and other records used to prepare the basic financial statements, or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America by us and other auditors. In our opinion, based on our audit and the report of other auditors, the supplementary financial information, as listed in the table of contents, is fairly stated, in all material respects, in relation to the basic financial statements as a whole for the year ended June 30, 2017.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated January 19, 2018 on our consideration of the System's internal control over financial reporting and on 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 solely 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 effectiveness of the System's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the System's internal control over financial reporting and compliance.

SIGNED ORIGINAL ON FILE

Schaumburg, Illinois January 19, 2018

MANAGEMENT'S DISCUSSION AND ANALYSIS

This section presents management's discussion and analysis of the financial position and performance of the Judges' Retirement System of Illinois (System) for the year ended June 30, 2017. It is presented as a narrative overview and analysis. .

The System is a defined benefit, single-employer public employee retirement system. It provides services to 953 active judges and 1,175 benefit recipients. Throughout this discussion and analysis, units of measure (i.e. billions, millions, thousands) are approximate, being rounded up or down to the nearest tenth of the respective unit value.

OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis is intended to serve as an introduction to the System's financial reporting which is comprised of the following components:

- 1. Basic Financial Statements and Notes. For the fiscal year ended June 30, 2017, basic financial statements are presented for the System. This information presents the fiduciary net position restricted for pensions for the System as of June 30, 2017. This financial information also summarizes the changes in fiduciary net position restricted for pensions for the year then ended. The notes to the financial statements provide additional information that is essential to achieve a full understanding of the data provided in the basic financial statements.
- 2. Required Supplementary Information. The required supplementary information consists of three schedules and related notes concerning actuarial information, funded status, actuarially determined contributions and investment returns.
- Other Supplementary Schedules. Other supplementary schedules include more detailed information
 pertaining to the System, including schedules of revenues by source, cash receipts and disbursements,
 and payments to consultants and advisors.

FINANCIAL HIGHLIGHTS

- The fiduciary net position increased by \$101.5 million during fiscal year 2017. The change resulted in a \$23.9 million decrease in cash, a \$114.5 million increase in investments (excluding securities lending collateral) and a \$10.9 million increase in receivables during the fiscal year.
- The System was funded at 34.7% as of June 30, 2017.
- The overall rate of return for the Illinois State Board of Investment (ISBI) Commingled Fund was a gain
 of 12.3% for fiscal year 2017 and the System's annual money-weighted rate of return on its investment
 in the ISBI Commingled Fund was a gain of 12.4%.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Condensed Statements of Fiduciary Net Position

(in thousands)

	As of June 30, 2017 2016	Increase/(Decrease) from 2016 to 2017
Cash	\$ 25,658.0 \$ 49,540.6	\$(23,882.6)
Receivables	16,623.3 5,704.0	10,919.3
Investments, at fair value *	909,295.1 796,679.1	112,616.0
Capital Assets, net	55.848.0	7.8
Total assets	951,632.2 851,971.7	99,660.5
Liabilities *	9,828.7 11,682.8	(1,854.1)
Total fiduciary net position	\$ 941,803.5 \$ 840,288.9	\$101,514.6
* Including securities lending collateral		

ADDITIONS TO FIDUCIARY NET POSITION

Additions to Fiduciary Net Position include employer and participant contributions and net income from investment activities. Participant contributions were approximately \$14.8 million and \$15.0 million for the years ended June 30, 2017 and June 30, 2016, respectively. Participant contribution rates are set by statute as a percentage of gross salary. For fiscal year 2017, employer contributions decreased to approximately \$131.3 million from \$132.1 million in fiscal year 2016. These changes were the result of the actuarially determined employer contributions required by the State's funding plan.

DEDUCTIONS FROM FIDUCIARY NET POSITION

Deductions from Fiduciary Net Position are primarily benefit and refund payments. During fiscal years 2017 and 2016, the System paid out approximately \$141.5 million and \$133.2 million in benefits and refunds, respectively. This increase of 6.2% from 2016 to 2017 is mainly the result of the annual scheduled 3% increase in retirement and other benefit payments. The administrative costs of the System represented less than 1% of the total deductions in each of the fiscal years presented within the condensed statements.

Condensed Statements of Changes in Fiduciary Net Position

(in thousands)

			Increase/(Decrease)
	Cautha Vaar	Francia di luna 00	from
-	For the Year	Ended June 30,	2016 to
	2017	2016	2017
Additions			
Participant contributions	\$ 14,770.4	\$ 14,962.1	\$ (191.7)
Employer contributions	131,334.0	132,060.0	(726.0)
Net Investment income (loss)	97,796.5	(6,470.6)	104,267.1
Total additions	243,900.9	140,551.5	103,349.4
Deductions			
Benefits	140,497.2	132,571.8	7,925.4
Refunds	974.7	658.1	316.6
Administrative expenses	914.4	942.9	(28.5)
Total deductions	142,386.3	134,172.8	8,213.5
Net increase\(decrease) in			
fiduciary net position	<u>\$ 101,514.6</u>	\$ 6,378.7	<u>\$ 95,135.9</u>

MANAGEMENT'S DISCUSSION AND ANALYSIS

FUNDED RATIO

The funded ratio of the plan measures the ratio of the fiduciary net position against total pension liability as measured by the actuary and is one indicator of the fiscal strength of a pension fund's ability to meet obligations to its members. An annual actuarial valuation is performed. The most recent available valuation showed the funded status of the System was 34.7% on June 30, 2017. The amount by which total pension liability exceeded the fiduciary net position was \$1,771.2 million on June 30, 2017.

INVESTMENTS

Investments of the System are combined in an internal commingled investment pool and held by the Illinois State Board of Investment (ISBI) with the State Employees' Retirement System, General Assembly Retirement System, and one other state agency. The investments of this other state agency are immaterial to the total commingled investment pool. Each participating entity owns an equity position in the pool and receives proportionate investment income from the pool in accordance with respective ownership percentage. Investment gains or losses are reported in the Statement of Changes in Fiduciary Net Position of each participating entity.

The net investment income of the total ISBI Commingled Fund was approximately \$1,918.2 million during fiscal year 2017, resulting in returns of 12.3%. The actual rate of return earned by the System will vary from the return earned on the total ISBI Commingled Fund as a result of overall market conditions at the time of additional investments in or withdrawals from the ISBI Commingled Fund. For the three, five, and ten year periods ended June 30, 2017, the ISBI Commingled Fund earned a compounded rate of return of 5.3%, 9.4%, and 4.6%, respectively.

The ISBI is exposed to general market risk. This general market risk is reflected in asset valuations fluctuating with market volatility. Any impact from market volatility on the ISBI's investment portfolio depends in large measure on how deep the market downturn is, how long it lasts, and how it fits within fiscal year reporting periods. The resulting market risk and associated realized and unrealized gains and losses could significantly impact the ISBI's financial condition.

FUTURE OUTLOOK

The actuarial assumptions adopted as of June 30, 2017 were based on the experience review for the three years ended June 30, 2015, and annual review of all economic assumptions. The state's statutory employer contribution for fiscal year 2018, will increase by \$4.288 million, or 3.2%.

Tier 2 active members' annual earnings on which they can contribute were capped at \$117,213 in 2017 and will be capped at \$119,792 in 2018. The caps on Tier 2 members' earnings decreases the anticipated amount of future earnings credit as well as the associated contributions.

Benefit payments are projected to continue to grow at a rate of approximately 4% to 6%, primarily as a result of the increasing numbers of retirees and the 3% annual COLA.

The ISBI plans to continue to improve the overall investment portfolio performance by increasing reliance on passive investment strategies and reducing investment advisor and management fees.

REQUESTS FOR INFORMATION

This financial report is designed to provide a general overview of the Systems' finances. For questions concerning the information in this report or for additional information, contact the Accounting Division of the State Retirement Systems at srsacctgdiv@srs.illinois.gov.

JUDGES' RETIREMENT SYSTEM, STATE OF ILLINOIS

Statement of Fiduciary Net Position June 30, 2017

Aggete	2017
Assets	
Cash	\$ 25,657,962
Receivables: Employer contributions Participants' contributions Refundable annuities Interest on cash balances	16,416,750 105,243 13,643 29,509
Due from General Assembly Retirement System	58,194
Total receivables	16,623,339
Investments - held in the Illinois State Board of Investment Commingled Fund at fair value Securities lending collateral with State Treasurer Capital Assets, net Total Assets	899,652,118 9,643,000 55,839 951,632,258
Liabilities	
Refunds payable Administrative expenses payable Securities lending collateral Total Liabilities	47,002 138,724 9,643,000 9,828,726
Net position – restricted for pensions	\$ 941,803,532
See accompanying notes to financial statements.	

JUDGES' RETIREMENT SYSTEM, STATE OF ILLINOIS Statement of Changes in Fiduciary Net Position

for the Year Ended June 30, 2017

	2017
Additions:	
Contributions:	Φ 44770407
Participants	\$ 14,770,467
Employer Total contributions	<u>131,334,000</u> 146,104,467
Total Contributions	
Investment income:	
Net appreciation/(depreciation) in fair value of investments	77,594,390
Interest and dividends	21,714,784
Less investment expense,	(, === =)
other than from securities lending	(1,558,941)
Net income (loss) from investing,	97,750,233
other than from securities lending	46,246
Net securities lending income Net investment income (loss)	97,796,479
	<u> 97,790,479</u>
Total Additions	243,900,946
Deductions:	
Benefits:	
Retirement annuities	116,611,033
Survivors' annuities	23,845,754
Temporary disability	40,417
Total benefits	140,497,204
Refunds of contributions	974,665
Administrative expenses	914,405
Total Deductions	142,386,274
Net Increase/(Decrease)	101,514,672
Net position - restricted for pensions:	
Beginning of year	840,288,860
End of year	\$ 941,803,532

See accompanying notes to financial statements.

JUDGES' RETIREMENT SYSTEM OF ILLINOIS

Notes to Financial Statements June 30, 2017

1. Reporting Entity

Generally accepted accounting principles require that the financial reporting entity include (1) the primary government, (2) organizations for which the primary government is financially accountable and (3) other organizations for which the nature and significance of their relationship with the primary government are such that exclusion would cause the reporting entity's financial statements to be misleading or incomplete.

The Judges' Retirement System of Illinois (System) is administered by a Board of Trustees consisting of five persons, which include the State Treasurer, the Chief of the Supreme Court, ex officio, and three participating judges appointed by the Supreme Court. Operation of the System and the direction of its policies are the responsibility of the Board of Trustees.

Based on the criteria of the Governmental Accounting Standards Board Statement No. 61, there are no other state agencies, boards or commissions, or other organizations required to be combined with the System, however, the System is a pension trust fund of the State of Illinois financial reporting entity, and is to be combined and included in the State of Illinois' comprehensive annual financial report.

Pursuant to federal tax law and regulations governing the administration of public employee pension plans, the System has established a separate fund for the sole purpose of paying benefits in accordance with Section 415 of the Internal Revenue Code. The receipts and disbursements from the fund for fiscal year 2017 were each less than \$1.7 million. Due to the immaterial nature of the separate fund, these receipts and disbursements have been included in the System's financial statements.

At June 30, 2017, the System membership consisted of:

	2017
Retirees and beneficiaries	
currently receiving benefits:	
Retirement annuities	852
Survivors' annuities	322
Temporary disability	1
, ,	1,175
Inactive participants entitled to benefits	
but not yet receiving them	11
Total	1,186
Active participants:	
	E 40
Vested	549
Nonvested	404
Total	953

2. Plan Description

The System is the administrator of a single-employer defined benefit public employee retirement system (PERS) established and administered by the State of Illinois to provide pension benefits for its participants. The plan is comprised of two tiers of contribution requirements and benefit levels. Tier 1 pertains to participants who first became a participant of the System prior to January 1, 2011. Tier 2 pertains to participants who first became a participant of the System on or after January 1, 2011.

a. Eligibility and Membership

The Judges' Retirement System covers Judges, Associate Judges and, under certain conditions, the Administrative Director of the Illinois courts. Participation by Judges, either appointed or elected, is mandatory unless the Judge files an election not to participate within thirty days of receipt of notice of this option.

b. Contributions

In accordance with Chapter 40, Section 5/18-133 of the Illinois Compiled Statutes, participants contribute specified percentages of their salaries for retirement annuities, survivors' annuities, and annual increases. Tier 1 participants contribute based on total annual compensation. Beginning January 1, 2011, Tier 2 participants contribute based on an annual compensation rate not to exceed \$106,800 with limitations for future years increased by the lesser of 3% or the annual percentage increase in the Consumer Price Index. The rate is \$117,213 for calendar year 2017. Contributions are excluded from gross income for Federal and State income tax purposes.

Participants who are eligible to receive the maximum rate of annuity may irrevocably elect to discontinue contributions and have their benefits "frozen" based upon the applicable salary in effect immediately prior to the effective date of such election.

Participants who have attained age 60 and are eligible to receive the maximum rate of annuity and have not elected to discontinue contributing to the System may irrevocably elect to have their contributions based only on the salary increases received on or after the effective date of such election rather than on the total salary received. The total contribution rate is 11% if the participants elect to contribute for their spouse and dependents as shown below:

7.5%	Retirement annuity
2.5%	Survivors' annuity
1.0%	Automatic annual increases
11.0%	

The statutes governing the Judges' Retirement System provide for optional contributions by participants, with interest at prescribed rates, to retroactively establish service credits for periods of prior creditable service.

The Board of Trustees has adopted the policy that interest payments by a participant, included in optional contributions to retroactively establish service credits, shall be considered an integral part of the participant's investment in annuity expectancies and, as such, shall be included as a part of any refund payable.

The payment of (1) the required State contributions, (2) all benefits granted under the System and (3) all expenses in connection with the administration and operation thereof are the obligations of the State to the extent specified in Chapter 40, Article 5/18 of the Illinois Compiled Statutes.

c. Benefits Retirement Annuity: Tier 1

Participants have vested rights to full retirement benefits beginning at age 60 with at least 10 years of credited service or reduced retirement benefits beginning at age 55. Participants also have vested rights to full retirement benefits at age 62 upon completing 6 years of credited service or at age 55 upon completing 26 years of credited service.

The retirement annuity provided is 3-1/2% for each of the first 10 years of service, plus 5% for each year of service in excess of 10, based upon the applicable final salary. The maximum retirement annuity is 85% of the applicable final salary. Annual automatic increases of 3% of the current amount of retirement annuity are provided.

Retirement Annuity: Tier 2

Participants have vested rights to full retirement benefits at age 67 with at least 8 years of credited service or reduced retirement benefits at age 62 with at least 8 years of credited service.

The retirement annuity provided is 3% for each year of service based upon the applicable final average salary. The maximum retirement annuity is 60% of the applicable final average salary. Annual automatic increases equal to the lesser of 3% or the annual change in the Consumer Price Index are provided.

Other Benefits

The Judges' Retirement System also provides survivors' annuity benefits, temporary and/or total disability benefits and, under certain specified conditions, lump-sum death benefits.

Participants who terminate service and are not eligible for an immediate annuity may receive, upon application, a refund of their total contributions. Participants or annuitants who are not married are entitled to refunds of their contributions for survivors.

3. Summary of Significant Accounting Policies & Plan Asset Matters

a. Basis of Accounting

The financial transactions of the System are maintained and these financial statements have been prepared using the accrual basis of accounting in conformity with generally accepted accounting principles.

Participant and employer contributions are recognized as revenues when due pursuant to statutory requirements. Benefits and refunds are recognized as expenses when due and payable in accordance with the terms of the plan.

b. Cash

The System retains all of its available cash in a commingled investment pool managed by the Treasurer of the State of Illinois (Treasurer). All deposits are fully collateralized by the Treasurer.

"Available cash" is determined to be that amount which is required for the current operating expenditures of the System. The excess of available cash is transferred to the Illinois State Board of Investment (ISBI) for purposes of long-term investment for the System.

c. Implementation of New Accounting Standards

GASB Statement No. 75, "Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions", addresses accounting and financial reporting for OPEB that is provided to the employees of state and local governmental employers. The statement establishes standards for recognizing and measuring liabilities, deferred outflows / deferred inflows of resources and expense/expenditures. In the case of defined benefit OPEB, the statement also identifies methods and assumptions that are required to be used to project benefit payments, discount projected benefit payments to their actuarial present value, and attribute that present value to periods of employee service. Note disclosures and required supplementary information about defined benefit OPEB are also addressed. This GASB is effective for fiscal years beginning after June 15, 2017 (FY 2018) and the impact on the System's financial statements, if any, has not been determined, at this time.

GASB Statement No. 82, "Pension Issues – Amendment to GASB 67 & 68", addresses the presentation of payroll related measures in the required supplementary information and the classification of payments made by employers to satisfy employee (plan member) contribution requirements. The System has implemented this statement for the year ended June 30, 2017. The impact of implementation is reflected in the updated RSI schedules applicable to covered payroll.

d. General Litigation

The System is subject to claims and lawsuits that arise primarily in the ordinary course of business. It is the opinion of management that the disposition or ultimate resolution of such claims and lawsuits will not have a material adverse effect on the plan net position or the changes in plan net position of the System.

e. Methods Used to Value Investments

Investments are managed by the ISBI pursuant to Chapter 40, Article 5/22A of the Illinois Compiled Statutes (ILCS) and are maintained in the ISBI Commingled Fund.

Investments are reported at fair value as follows: (1) U.S. Government and Agency, Foreign and Corporate Obligations, Convertible Bonds – prices quoted by a major dealer in such securities; (2) Common Stock and Equity Funds, Foreign Preferred Stock, Foreign Equity Securities, Forward Foreign Currency Contracts and Options: (a) Listed – closing prices as reported on the composite summary of national securities exchanges; (b) Over-the-counter – bid prices; (3) Money Market Instruments – amortized cost; (4) Real Estate Investments – fair values based on audited financial statements of the funds and then adjusted by the ISBI and its investment managers for activity from audit date to fiscal year end; (5) Alternative Investments (Private Equity, Hedge Funds, Bank Loans, and Real Assets) – fair values based on audited financial statements of the funds and then adjusted by the ISBI and its investment managers for activity from audit date to fiscal year end; (6) Commingled Funds – fair values based on audited financial statements of the funds and then adjusted by the ISBI and its investment managers for activity from audit date to fiscal year end.

Units of the ISBI Commingled Fund are issued to the participating entities on the last day of the month based on the unit net asset value calculated as of that date. Net investment income of the ISBI Commingled Fund is allocated to each of the participating entities on the last day of the month on the basis of percentage of accumulated units owned by the respective systems. Management expenses are deducted monthly from income before distribution.

The investment authority of the ISBI is provided in Chapter 40, Section 5/22A-112 of the ILCS. Such investment authority requires that all opportunities be undertaken with care, skill, prudence and diligence given prevailing circumstances that a prudent person acting in like capacity and experience would undertake.

f. Actuarial Experience Review

In accordance with Illinois Compiled Statutes, an actuarial experience review is to be performed at least once every three years to determine the adequacy of actuarial assumptions regarding the mortality, retirement, disability, employment, turnover, interest and earnable compensation of the members and beneficiaries of the System. An experience review was last performed for the period from July 1, 2012 to June 30, 2015 resulting in the adoption of new assumptions as of June 30, 2016.

g. Administrative Expenses

Expenses related to the administration of the System are financed through investment earnings and employer retirement contributions. These expenses are budgeted and approved by the System's Board of Trustees.

Administrative expenses common to the Judges' Retirement System and the General Assembly Retirement System are allocated 75% to the Judges' Retirement System and 25% to the General Assembly Retirement System. Invoices/vouchers covering common expenses incurred are paid by the Judges' Retirement System, and the appropriate amount is allocated to and reimbursed by the General Assembly Retirement System. Administrative expenses allocated to and reimbursed by the General Assembly Retirement System as of June 30, 2017 was \$233,719. The total administrative expenses attributable to the Judges' Retirement System was \$914,405 for fiscal year 2017.

h. Risk Management

The System, as part of the primary government of the State, provides for risks of loss associated with workers' compensation and general liability through the State's self-insurance program. The System obtains commercial insurance for fidelity, surety, and property. There have been no commercial insurance claims in the past three fiscal years.

i. Use of Estimates

In preparing financial statements in conformity with U.S. generally accepted accounting principles, the System makes estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements, as well as the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates and assumptions.

4. Investments

Introduction

Investments of the System are combined in a commingled internal investment pool and held by the Illinois State Board of Investment (ISBI). The System owns approximately 5% of the net position of the ISBI commingled fund as of June 30, 2017. A schedule of investment expenses is included in the ISBI's annual report.

For additional information on ISBI's investments, please refer to their Annual Report as of June 30, 2017. A copy of the report can be obtained from the ISBI at 180 North LaSalle Street, Suite 2015, Chicago, Illinois 60601.

Summary of the ISBI Fund's investments at fair value by type

	June 30, 2017
U.S. govt. and agency obligations Foreign obligations Corporate obligations Municipal Bonds Common stock & equity funds	\$ 3,167,555,410 259,928,956 782,703,583 8,524,180 4,960,020,282
Commingled funds Foreign equity securities Foreign preferred stock Hedge funds	1,334,987,865 2,506,796,371 10,377,571 831,753,718
Real estate funds Private equity Money market instruments	1,601,026,564 609,298,253 294,723,455
Real assets Bank loans Foreign currency forward contracts Total investments	587,711,767 424,188,017 (11,493,448) \$ 17,368,102,544

Rate of Return

For the fiscal year ended June 30, 2017, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 12.4%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Deposits

Custodial credit risk for deposits is the risk that, in the event of a financial institution failure, the System's and ISBI's deposits may not be returned. All non-investment related bank balances at year-end are insured or collateralized with securities held by the Illinois State Treasurer or agents in the name of the State Treasurer. As of June 30, 2017, the ISBI had a non-investment related bank balance of \$568,781. During fiscal year 2007, a Credit Risk Policy was implemented by the ISBI staff and formally adopted by the ISBI Board in July of 2007. The policy outlines the control procedures used to monitor custodial credit risk. These assets are under the custody of Northern Trust and Deutsche Bank AG, NY Branch. Northern Trust has an A+ Longterm Deposit/Debt rating by Standard & Poor's and an A2 rating by Moody's. Certain investments of the ISBI with maturities of 90 days or less would be considered cash equivalents; these consist of short-term investment funds and U.S. Treasury bills with maturities of 90 days or less, which are not subject to the custodial credit risk. For financial statement presentation and investment purposes, the ISBI reports these types of cash equivalents as Money Market Instruments within their investments. As of June 30, 2017, the ISBI had an investment related bank balance of \$7,967,508. This balance includes USD and foreign cash balances. As of January 1, 2013, cash held in the investment related bank account is neither insured nor collateralized for amounts in excess of \$250,000. At any given point and time, the foreign cash balances may be exposed to custodial credit risk.

Investment Commitments

The ISBI had total investment commitments of \$686 million at the end of fiscal year 2017. The ISBI's real estate and private equity investment portfolios consist of passive interests in limited partnerships. The ISBI had outstanding commitments to these limited partnerships of approximately \$658 million as of June 30, 2017. Also, at the end of fiscal year 2017, the ISBI had no outstanding commitments to separate real estate accounts. At the end of fiscal year 2017, the ISBI had an outstanding amount of \$28 million committed to real assets. The ISBI would fund outstanding commitments by utilizing available cash and then selling liquid securities in the portfolio as necessary.

Investment Liquidity

The ISBI holds investments in hedge funds, real estate funds, private equity funds and real assets that are considered illiquid by the very nature of the investment. Market risk exists with respect to these investments as the ISBI may not be able to exit from the investments during periods of significant market value declines.

Alternative Investments

The ISBI's investments in hedge funds are structured to achieve a diversified hedged equity fund-of-funds portfolio. Capital is allocated to a select group of hedge fund managers that invest predominately in equity securities, both long and short. The investments shall be managed with the intent of preserving capital in a declining market and in a rising market they will generate a smaller return than the overall equity market. These investments are redeemable once the underlying assets are liquidated.

The ISBI's investments in Private Equity and Real Estate funds represent investment vehicles used for making investments in various equity and debt securities according to the investment strategies as determined by the fund managers at the commencement of the fund.

Investment strategies of Private Equity funds include, but are not limited to, leveraged buyouts, venture capital, growth capital and mezzanine capital.

Investment strategies of Real Estate investments include, but are not limited to, the purchase, development, ownership, management, rental and/or sale of real estate for profit.

Fair Value Measurements

The recurring fair value measurements for the year ended June 30, 2017 are as follows:

At June 30, 2017
Fair Value Measurements Using

				raii vait	ie iviea:	surements using		
		Level 1		Level 2		Level 3		Totals
Investments by fair value level								
Debt securities								
Government and agency obligations	\$	-	\$	3,167,555,410	\$	-	\$	3,167,555,410
Municipal Bonds		-		8,524,179		-		8,524,179
Foreign obligations		-		258,211,969		1,716,987		259,928,956
Corporate obligations		_		779,474,180		3,229,403		782,703,583
Bank loans		950,157		15,782		423,222,078		424,188,017
Total debt securities	\$	950,157	\$	4,213,781,520	\$	428,168,468	\$	4,642,900,145
Equity Securities								
Common stock and equity funds	\$	4,958,531,468	\$	-	\$	1,488,814	\$	4,960,020,282
Foreign equity securities		2,498,338,425		5,282,837		3,175,109		2,506,796,371
Foreign preferred stocks		10,377,571				<u>-</u>		10,377,571
Total equity securities	\$	7,467,247,464	\$	5,282,837	\$	4,663,923	\$	7,477,194,224
Others								
Other Foreign currency forward contracts	\$	_	\$	_	\$	(11,493,448)	\$	(11,493,448)
Commingled funds	Ψ	_	Ψ	926,468,395	Ψ	(11,400,440)	Ψ	926,468,395
		_		265,453,032		8,209,888		273,662,920
Hedge funds (1)		-		200,400,002		, ,		
Real estate funds (1)		-		-		501,863,421		501,863,421
Real assets (1)	_	<u>-</u>	•	- 1 101 001 107	_	2,541,878	_	2,541,878
Total other	\$	<u> </u>	\$	1,191,921,427	\$	501,121,739	\$	1,693,043,166
Total investments by fair value level	\$	7,468,197,621	\$	5,410,985,784	\$	933,954,130	\$	13,813,137,535
Investments measured at the Net Asset Value (NA	AV)							
Commingled funds	,						\$	408,519,470
Real estate funds								1,099,163,143
Private equity								609,298,253
Real assets								585,169,889
Hedge funds								558,090,798
							Ф.	3,260,241,553
Total investments measured at the NAV							φ_	3,200,241,555
Investments not measured at fair value								
Money market instruments							\$	294,723,455
Total investments							\$	17,368,102,543
		Level 1		Level 2	Ν	lot Applicable		Total
Securities lending collateral	\$	4,738,024	\$	2,822,262	\$	1,089,390 ⁽²⁾	\$	8,649,676
		-,,				.,,		-,,

⁽¹⁾ Investments are held in separate accounts.

Fair value is the amount that would be received to sell the investment in an orderly transaction between market participants at the measurement date (i.e. exit price). The fair value measurements are determined within a framework that utilizes a three-tier hierarchy, which maximizes the use of observable inputs and minimizes the use of unobservable inputs. Investments measured and reported at fair value are classified and disclosed in one of the following categories:

⁽²⁾ Consists of cash, interest income and tri-party repos which are not subject to leveling.

- Level 1 Unadjusted quoted prices in active markets for identical assets.
- Level 2 Inputs other than quoted prices that are observable for the asset, either directly or indirectly.
 These inputs include:
 - a. quoted prices for similar assets in active markets;
 - b. quoted prices for identical or similar assets in markets that are not active;
 - c. inputs other than quoted prices that are observable for the asset;
 - d. inputs that are derived principally from or corroborated by observable market data by correlation or other means.
- Level 3 Inputs that are unobservable for the asset. The valuation of these investments requires significant judgement due to the absence of quoted market values, inherent lack of liquidity, and changes in market conditions.

The valuation methodologies are as follows:

- U.S. Treasuries and U.S. Agencies: quoted prices for identical securities in markets that are not active;
- · Foreign Government Obligations and Foreign Corporate Obligations: Broker quote in an active market;
- Corporate Bonds: quoted prices for similar securities in active markets;
- Bank Loans: discounted cash flow, internal assumptions, weighting of the best available pricing inputs and third party pricing services;
- Common Stock and Equity Funds, Foreign Preferred Stocks, Foreign Equity Securities and Commingled Funds-Domestic and Foreign: quoted prices for identical securities in an active market. Brokers quote in an active market:
- Money Market Funds: Average cost which approximates fair value;
- Derivative Instruments: valued using a market approach that considers foreign exchange rates.

Investments valued using the net asset value (NAV) per share (or its equivalent) are considered "alternative investments" and, unlike more traditional investments, generally do not have readily obtainable market values and take the form of limited partnerships. The ISBI values these investments based on the partnerships' audited financial statements. If June 30 statements are available, those values are used preferentially. However, some partnerships have fiscal years ending at other than June 30. If June 30 valuations are not available, the value is adjusted from the most recently available valuation taking into account subsequent calls and distributions, adjusted for unrealized appreciation/depreciation, other income and fees. Certain alternative investments are categorized as Level 3 in instances where the ISBI owns substantially 100% of the applicable separate account.

The following table presents the unfunded commitments, redemption frequency (if currently eligible), and the redemption notice period for alternative investments measured at NAV:

	June 30, 2017			
	Fair Value	Unfunded Commitments	Redemption Frequency	Redemtion Notice Period
Commingled funds	\$ 408,519,470	none	N/A	N/A
Real Estate funds	1,099,163,143	267.1 million	Quarterly	90 Days
Private Equity	609,298,253	391.3 million	Quarterly	90 Days
Hedge funds	558,090,798	-	N/A	N/A
Real Assets Total Investments measured at the NAV	585,169,889 \$ 3,260,241,553	27.6 million	N/A	N/A

- 1) Commingled Funds The ISBI's investments in this category consist of assets that are blended together with other investments in order to provide economies of scale which allows for lower trading costs per dollar of investment and diversification. Investment strategies consist of investments in nine diversified funds focusing on emerging markets. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year end. The ISBI has no plans to liquidate these investments as of June 30, 2017. It is probable that any investments sold will be sold at an amount different from the current NAV of the plan's ownership interest.
- 2) Private Equity The ISBI's assets in this category consist of investments in funds that identify opportunities not yet identified by traditional public equity or fixed income capital markets. Investment strategies consist of investments in fifty-five funds with the goals of generating returns significantly greater than typically available in the public market and diversifying ISBI's overall portfolio which is comprised predominantly of fixed income and equity assets. Returns are commensurate with the risks presented by this asset class which include illiquidity and lack of standard historical evaluation data. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year end. The ISBI has no plans to liquidate these investments as of June 30, 2017. It is probable that any investments sold will be sold at an amount different from the current NAV of the plan's ownership interest.
- 3) Hedge Funds The ISBI's assets in this category consist of investments in funds that seek to generate high active return for investors. Investment strategies consist of investments in seven funds with the goals of generating returns significantly greater than typically available in the public market and diversifying the ISBI's overall portfolio which is comprised predominantly of fixed income and equity assets. Returns are commensurate with the risks presented by this asset class which include illiquidity and lack of standard historical evaluation data. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year end. The ISBI has no plans to liquidate these investments as of June 30, 2017. It is probable that any investments sold will be sold at an amount different from the current NAV of the plan's ownership interest.
- 4) Real Assets The ISBI's assets in this category consist of investments in funds that identify infrastructure assets which provide essential services or facilities to a community (ports, bridges toll roads etc.). Investment strategies consist of investments in seven funds with the goals of diversifying the ISBI's overall portfolio which is comprised predominantly of fixed income and equity assets and providing a hedge against unanticipated inflation. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year end. The ISBI has no plans to liquidate these investments as of June 30, 2017. It is probable that any investments sold will be sold at an amount different from the current NAV of the plan's ownership interest.
- 5) Real Estate Funds The ISBI's assets in this category consist of investments in the Core and Non-Core Real Estate Fund categories. Investment strategies consist of investments in thirty-three funds with the goals of diversifying the ISBI's overall portfolio and supplementing the total return of the portfolio which is comprised predominantly of fixed income and equity assets. The fair value of these investments is based on audited financial statements of the funds adjusted for activity from the audit date to year end. The ISBI has no plans to liquidate these investments as of June 30, 2017. It is probable that any investments sold will be sold at an amount different from the current NAV of the plan's ownership interest.

Certain real estate investments are leveraged whereby partnerships have been established to purchase properties through a combination of contributions from the ISBI and through acquisition of debt. At June 30, 2017, real estate equities of approximately \$1,601 million are reported at estimated fair value. Of this amount, \$1,810 million is net assets and \$209 million is long term debt.

Required repayment of real estate debt, which is non-recourse debt is as follows as of June 30, 2017:

Debt Maturities Year Ending June 30	2017
2018 2019 2020–2024	\$ 71,975,758 60,222,469 76,375,000
2020 2024	\$ 208,573,227

The ISBI's investments in Real Assets represent pooled investment vehicles used to seek capital appreciation and current income by acquiring, holding, financing, refinancing and disposing of infrastructure investments and farmland assets. Real Assets include various public works (e.g. bridges, tunnels, toll roads, airports, public transportation and other public works) that are made typically as a part of a privatization initiative on the part of a government entity.

A Commingled fund is a kind of mutual fund or common trust fund which consists of multiple kinds of assets from several accounts combined together. 'Commingling' these separate assets mitigates risk for the trader through investment diversification and reduces the cost of managing each account separately. Commingled funds are also called "pooled funds" and "master trusts".

Custodial Credit Risk for Investments

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty to a transaction, the ISBI will not be able to recover the value of investments or collateral securities that are in the possession of a counterparty. As of June 30, 2017, there were no investments that were uninsured and unregistered, securities held by the counterparty or by its trust department or agent but not in the ISBI's name.

Interest Rate Risk

The ISBI manages its exposure to fair value losses arising from interest rate risk by diversifying the debt securities portfolio and maintaining the debt securities portfolio to an effective weighted duration between 80% and 120% of the benchmark index.

Duration is the measure of a debt investment's exposure to fair value changes arising from changing interest rates. It uses the present value of cash flows, weighted for those cash flows as a percentage of the investment's fair value. The effective duration measures the sensitivity of market price to parallel shifts in the yield curve. As of June 30, 2017, the ISBI benchmarked its debt security portfolio to Barclay's U.S. Universal Index. At June 30, 2017, the effective duration of the Barclay's U.S. Universal Index was 5.8 years. The table below shows the detail of the duration by investment type as of June 30, 2017.

	2017		
Investment Type	Fair Value	Effective Weighted Duration Years	
U.S. Govt. and Agency Obligations			
U.S. Government	\$ 2,463,827,	683 8.1	
Federal Agency	703,727,	727 1.5	
Municipal Obligations	8,524,	179 10.7	
Foreign Obligations	259,928,	956 5.4	
Corporate Obligations			
Bank & Finance	238,676,	054 4.8	
Industrial	332,736,	578 5.6	
Other	211,290,	951 3.4	
Total	\$ 4,218,712,	128	

For the ISBI's bank loan portfolio, the appropriate measure of interest rate risk is weighted average maturity. Weighted average maturity is the average time it takes for securities in a portfolio to measure weighted in proportion to the dollar amount that is invested in the portfolio. Weighted average maturity measures the sensitivity of fixed-income portfolios to interest rate changes. At June 30, 2017, the weighted average maturity of ISBI's bank loan portfolio was 5.2 years.

Concentration of Credit Risk and Credit Risk for Investments

The ISBI's portfolio of investments is managed by professional investment management firms. These investment management firms are required to maintain diversified portfolios. Each investment manager must comply with risk management guidelines individually assigned to them as part of their investment management agreement. The ISBI did have one issuer investment that exceeded 5% of the total investments of the fund as of June 30, 2017. This security was U.S. Treasury Notes/Bills with a Moody's rating of Aaa. This investment represented 9.3% of the total investments of the fund. The table below presents the quality ratings of debt securities held by the ISBI as of June 30, 2017.

	Moody's Quality Rating		
	Quality Flating		
U.S. Government and Agency obligations	AAA	\$	3,158,901,956
	Not Rated	Ψ	8,653,454
Total U.S. government and agency obligations		\$	3,167,555,410
Municipal obligations			
Walloffal Obligations	AA	\$	642,037
	Α		2,882,298
	CA Nat Data d		27,600
Total municipal obligations	Not Rated	<u>¢</u>	4,972,244 8,524,179
Foreign Obligations		\$	0,324,179
Foreign Obligations	AAA	\$	31,487,487
	AA	Ψ	23,915,012
	Α		41,606,650
	BAA		49,115,570
	BA		37,198,813
	B CAA		36,793,567 22,045,713
	Not rated		17,766,144
Total Foreign Obligations		\$	259,928,956
Corporate Obligations			
Bank and Finance	A A A	ф	10 000 705
	AAA AA	\$	13,938,725 3,420,980
	A		149,130,222
	BAA		34,475,471
	BA		18,275,504
	В		6,930,493
	CAA CA		1,433,460 202,219
	Not Rated		10,868,980
Total Bank and Finance		\$	238,676,054
Industrial	AAA	\$	3,065,143
	AA	Ψ	36,554,015
	Α		75,400,446
	BAA		76,415,611
	BA		34,835,159
	B CAA		76,951,466 20,385,982
	Not Rated		9,128,756
Total Industrial		\$	332,736,578

	Moody's Quality Rating	
Other		
	AAA AA	\$ 5,458,280 3,739,160
	Α	24,505,507
	BAA	28,252,052
	BA	49,389,970
	В	63,834,010
	CAA	26,703,092
	CA	659,152
	Not Rated	8,749,728
Total Other		\$ 211,290,951
Total Corporate Obligations		\$ 782,703,583
Total Bank Loans	Not Rated	\$ 424,188,017
Total Money Market	Not Rated	\$ 294,723,455

Foreign Currency Risk

The IŠBI's international portfolio is constructed on the principles of diversification, quality growth, and value. Risk of loss arises from changes in currency exchange rates. International managers may also engage in transactions to hedge currency at their discretion. Certain investments held in infrastructure funds trade in a reported currency of Euro-based dollars valued at \$55,800,598 as of June 30, 2017. The table below presents the foreign currency risk by type of investment as of June 30, 2017.

	2017			
	Foreig	n Equity Securities		Foreign
Currency	& Fore	ign Preferred Stock		Obligations
			_	
Australian Dollar	\$	152,888,417	\$	-
Brazilian Real		961,571		-
Canadian Dollar		34,677,102		-
Czech Koruna		203,788		-
Danish Krone		42,485,717		-
English Pound Sterling		397,981,229		-
Euro Currency		734,164,621		-
Hong Kong Dollar		85,005,625		-
Japanese Yen		588,719,325		-
Mexican Peso		2,409,930		-
New Israeli Sheqel		12,140,621		-
New Zealand Dollar		9,965,657		-
Norwegian Krone		18,989,567		-
Singapore Dollar		30,187,967		-
South African Rand		5,483		-
South Korean Won		15,435,329		-
Swedish Krona		76,543,934		-
Swiss Franc		191,491,742		-
Thailand Baht		3,128,384		-
UAE Dirham		533,887		-
Foreign investments				
denominated in U.S. Dollars		119,254,046		259,928,956
Total	\$	2,517,173,942	\$	259,928,956

Securities Lending

The ISBI participates in a securities lending program with Deutsche Bank AG, New York Branch who acts as securities lending agent. Prior to June 22, 2015, the ISBI participated in a securities lending program with Credit Suisse AG, New York Branch, who acted as securities lending agent. Securities are loaned to brokers and, in return, the ISBI receives cash and non-cash collateral. All of the securities are eligible for the securities lending program. Collateral consists solely of cash and government securities having a fair value equal to or exceeding 102% of the value of the loaned securities (105% for non-U.S. securities). In the event of borrower default, Deutsche Bank AG, New York Branch provides the ISBI with counterparty default indemnification. Investments in the cash collateral account represent securities that were distributed to the ISBI in connection with the in-kind redemption of the ISBI's ownership in the State Street Bank and Trust Company Quality Funds for Short-Term Investment (Quality D). Deutsche Bank is not responsible for any losses with regards to these legacy investments. This arrangement subjects the ISBI to credit risk as the credit quality of these investments may decline over time. The credit risk on the legacy investments is the risk of a possible loss arising from the inability of a counterparty to meet its obligations. These losses could include the loss of principal, interest and/or decreased expected cash flows in any of the investments held in the ISBI's cash collateral account. In the event a counterparty defaults on its obligations, the ISBI would need to credit the cash collateral account with the amount of the default to make the account whole so that once loaned securities are returned, the cash pledged by borrowers can be returned to them. As of June 30, 2017, the collateral received exceeded the fair value of the securities loaned. As of June 30, 2017, there were outstanding loaned investment securities having a fair value of \$120,598,587 against which collateral was received with a fair value of \$125,266,597. Collateral received at June 30, 2017 consisted of \$8,649,676 in cash and \$116,616,921 in government securities for which the ISBI does not have the ability to pledge or sell.

The cash collateral received is invested in a short-term instrument having a fair value of \$8,649,676 as of June 30, 2017. This investment pool had an average duration of 20.29 days as of June 30, 2017. Any decrease in the fair value of invested cash collateral is recorded by the ISBI as unrealized losses and reported as a component of the investment income/loss on the ISBI's Statement of Changes in Net Position.

Cash and cash equivalents included in the System's Statement of Fiduciary Net Position consist of deposits held in the State Treasury. The Illinois Office of the Treasurer invests the deposits held and allocates investment income on a monthly basis.

The State Treasurer lends securities to broker-dealers and other entities for collateral that will be returned for the same securities in the future. The State Treasurer has, through a Securities Lending Agreement, authorized Deutsche Bank AG to lend the State Treasurer's securities to broker-dealers and banks pursuant to a form of loan agreement.

During fiscal year 2017, Deutsche Bank AG lent U.S. Treasury and U.S. Agency securities and received as collateral U.S. dollar denominated cash. Borrowers were required to deliver collateral for each loan equal to at least 100% of the aggregated fair value of the loaned securities. Loans are marked to market daily. If the fair value of collateral falls below 100%, the borrower must provide additional collateral to raise the fair value to 100%.

The State Treasurer did not impose any restrictions during fiscal year 2017 on the amount of the loans available, eligible securities. In the event of borrower default, Deutsche Bank AG provides the State Treasurer with counterparty default indemnification. In addition, Deutsche Bank AG is obligated to indemnify the State Treasurer if the Deutsche Bank AG loses any securities, collateral or investments of the State Treasurer in Deutsche Bank AG's custody. There were no losses during fiscal year 2017 resulting from a default of the borrowers or Deutsche Bank AG.

During fiscal year 2017, the State Treasurer and the borrowers maintained the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested in repurchase agreements with approved counterparties collateralized with securities approved by Deutsche Bank AG and marked to market daily at no less than 102%. Because the loans are terminable at will, their duration did not generally match the duration of the investments made with the cash collateral. The State Treasurer had no credit risk as a result of its securities lending program as the collateral held exceeded the fair value of the securities lent. The securities lending cash collateral received that was invested in repurchase agreements and the fair value of securities on loan for the State Treasurer as of June 30, 2017 were \$3,522,922,500 and \$3,475,790,990, respectively. The System's portion of securities lending collateral that was invested in repurchase agreements as of June 30, 2017 was \$9,643,000.

Derivative Securities

In fiscal year 2010, the ISBI implemented GASB Statement No. 53, *Accounting and Financial Reporting for Derivative Instruments*, with respect to investments held in derivative securities. A derivative security is an investment whose payoff depends upon the value of other assets such as commodity prices, bond and stock prices, or a market index. The ISBI invests in derivative instruments including forward foreign currency contracts, futures, rights and warrants. The ISBI's derivatives are considered investment derivatives.

Foreign currency forward contracts (FX forwards) are used to protect against the currency risk in the ISBI's foreign equity portfolio. A foreign currency forward contract is an agreement to buy or sell a specific amount of a foreign currency at a specified delivery or maturity date for an agreed-upon price. Fluctuations in the market value of foreign currency forward contracts are marked to market on a daily basis. These investments are reported at fair value in the investment section of the ISBI's Statement of Net Position. The gain or loss arising from the difference between the original contracts and the closing of such contracts is recognized in the net increase/decrease in the fair value of investments in the ISBI's Statement of Changes in Net Position. In May 2011, the ISBI removed language from the investment management agreements allowing managers to hedge foreign currencies and/or to hedge equity positions.

The ISBI's investment managers use financial futures to replicate an underlying security they wish to hold (sell) in the portfolio. In certain instances, it may be beneficial to own a futures contract rather than the underlying security (arbitrage). Additionally, financial futures are used in the ISBI's fixed income portfolio to adjust portfolio strategy and overall portfolio duration. A financial futures contract is an agreement to buy or sell a specific amount at a specified delivery or maturity date for an agreed-upon price. If the fair values of the futures contract vary from the original contract price, a gain or loss is recognized and paid to or received from the clearinghouse. The gain or loss is recognized in the net increase/decrease in the fair value of investments in the ISBI's Statement of Changes in Net Position. Financial futures represent an off-balance sheet obligation, as there are no balance sheet assets or liabilities associated with those contracts. The cash or securities to meet these obligations are held in the ISBI's investment portfolio.

The ISBI's investment managers use options in an attempt to add value to the portfolio (collect premiums) or protect (hedge) a position in the portfolio. Financial options are an agreement that gives one party the right, but not the obligation, to buy or sell a specific amount of an asset for a specified price, called the strike price, on or before a specified expiration date. As a writer of financial options, the ISBI receives a premium at the outset of the agreement and bears the risk of an unfavorable change in the price of the financial instrument underlying the option. All written financial options are recognized as a liability in the ISBI's Statement of Net Position. As a purchaser of financial options, the ISBI pays a premium at the outset of the agreement and the counterparty bears the risk of an unfavorable change in the price of the financial instrument underlying the option. The gain or loss associated with options is recognized in the net increase/decrease in the fair value of investments in the ISBI's Statement of Changes in Net Position.

Rights and warrants allow the ISBI's investment managers to replicate an underlying security they wish to hold (sell) in the portfolio. Rights and warrants provide the holder with the right, but not the obligation, to buy or sell a company's stock at a predetermined price. Rights usually expire after a few weeks and warrants can expire from one to several years. Under certain circumstances, a type of warrant called Participatory Notes (P-Notes) are used in the portfolio by the ISBI's investment managers that are not registered to trade in domestic Indian Capital Markets. P-Notes are issued by Indian-based brokerage firms against an underlying Indian security permitting holders to get a share in the income from the security. These investments are reported at fair value in the investment section of the ISBI's Statement of Net Position within the common stock and foreign equity classifications. The gain or loss associated with rights and warrants is recognized in the net increase/decrease in the fair value of investments in the ISBI's Statement of Changes in Net Position.

The fair values of the forward contracts are estimated based on the present value of their estimated future cash flows. Futures contracts are exchange traded instruments where the fair value is determined by the equilibrium between the forces of supply and demand. The fair value of a right or warrant closely tracks the intrinsic value of the underlying stock and can be determined either by formulaic methodology (most commonly Black-Scholes) or intrinsic value methodology.

The table below presents the investment derivative instruments aggregated by type that were held by the ISBI as of June 30, 2017.

	Changes in Fair Value	Fair Value at Year End	Notional Amount Number of Shares
	2017	2017	2017
FX Forwards	\$ (10,156,028)	\$ (11,493,448)	
Futures	-	-	331
Rights/Warrants	57,038	130,528	555,678
-	\$ (10,098,990)	\$ (11,362,920)	556,009

The table below shows the futures positions held by the ISBI as of June 30, 2017.

	2017	
	Number of Contracts	Contract Principal*
Equity Futures Purchased	331	\$35,782,930
Fixed Income Futures Purchased	-	-
Fixed Income Futures Sold	-	-

^{*} Contract principal amounts shown represent the market value of the underlying assets the contracts control. These are shown to present the volume of the transactions but do not reflect the extent to which positions may offset one another. These amounts do not represent the much smaller amounts potentially subject to risk. Contract principal values also do not represent actual recorded values reported in the ISBI's Statement of Net Position.

Derivative transactions involve, to varying degrees, credit risk and market risk. Credit risk is the possibility that a loss may occur because a party to a transaction fails to perform according to terms. Derivatives which are exchange traded are not subject to credit risk. No derivatives held are subject to custodial credit risk. Market risk is the possibility that a change in interest (interest rate risk) or currency rates (foreign currency risk) will cause the value of a financial instrument to decrease or become more costly to settle. The market risk associated with derivatives, the prices of which are constantly fluctuating, is regulated by imposing strict limits as to the types, amounts and degree of risk that investment managers may undertake. These limits are approved by the Board of Trustees and management of the ISBI and the risk positions of the investment managers are reviewed on a periodic basis to monitor compliance with the limits. As of June 30, 2017, the ISBI held futures contracts whose underlying instruments were exposed to interest risk but there were no GASB 53 reportable elements. The ISBI has not adopted a formal policy specific to master netting arrangements.

The following table presents the fair value of derivative investments exposed to foreign currency risk as of June 30, 2017:

	2017	
Currency	FX Forwards	Rights
Argentine Peso Australian Dollar Brazilian Real Chinese Yuan English Pound Sterling Euro Currency Japanese Yen New Israeli Shekel Russian Ruble Investments denominated	\$ 2,910 (7,598) (10,649) - (11,489,144) 14,409 - 14,323	\$ - 21,382 - 806 85,529 - 2,977 -
in U.S. dollars	(17,699) \$ (11,493,448)	19,834 \$130,528

The ISBI's derivative investments in foreign currency forward contracts are held with counterparties. The counterparties were not rated and the fair value and net exposure as of June 30, 2017 for these contracts were \$94,698.

5. Funding - Statutory Contributions Required & Contributions Made

On an annual basis, a valuation of the liabilities and reserves of the System is performed by the System's actuarial consultants in order to determine the amount of contributions statutorily required from the State of Illinois. For fiscal year 2017, the actuary used the projected unit credit actuarial method for determining the proper employer contribution amount.

For fiscal year 2017, the required employer contribution was computed in accordance with the State's funding plan. This funding legislation provides for a systematic 50-year funding plan with an ultimate goal to fund the cost of maintaining and administering the System at an actuarial funded ratio of 90%.

In addition, the funding plan provides for a 15-year phase-in period to allow the state to adapt to the increased financial commitment. Since the 15-year phase-in period ended June 30 2010, the state's contribution will remain at a level percentage of payroll for the next 35 years until the 90% funded level is achieved.

The total amount of statutorily required employer contributions for fiscal year 2017 was \$131,334,000. The total amount of employer contributions received from the state during fiscal year 2017 was \$131,334,000.

6. Net Pension Liability of the State

The components of the State's net pension liability for this plan at June 30, 2017 are as follows:

Total Pension	Plan Fiduciary	Net Pension	Plan FNP
Liability (TPL)	Net Position (FNP)	Liability	as % of TPL
\$2,713,027,855	\$941,803,532	\$1,771,224,323	34.71%

The System is significantly underfunded which raises concerns about its future financial solvency should there be a significant market downturn coupled with the State's inability or unwillingness to pay the employer contributions.

Actuarial assumptions

The total pension liability was determined by an actuarial valuation as of June 30, 2017, using the following actuarial assumptions, which were based on the results of an actuarial experience study for the period from July 1, 2012 to June 30, 2015:

Actuarial	Cost	Method:	Entry-Age	Normal
AGIUALIAI	COOL	MEHIOA.		INUITIAL

Mortality rates:

Post retirement: RP-2014 White Collar Total Healthy Annuitant mortality table, sex distinct, with

rates set forward one (1) year for males and set back one (1) year for females and generational mortality improvements using MP-2014 two-dimensional mortality improvement scales recently released by the Society of Actuaries (SOA)

Pre-retirement: RP-2014 White Collar Total Employee mortality table, sex distinct and gen-

erational mortality improvements using MP-2014 two-dimensional mortality improvement scales recently released by the SOA, to reflect that experience shows active members having lower mortality rates than retirees of the same

age.

Inflation: 2.75%, compounded annually

Investment rate of return: 6.75% per year, compounded annually

Salary increases: 3.0% per year (consisting of an inflation component of 2.75% per year, a

productivity / merit / promotion component of 0.25% per year).

Group size growth rate: 0.0%

Post-retirement increase: Tier 1: 3.0% per year, compounded annually. Tier 2: 3.0% per year or the

annual change in the Consumer Price Index, whichever is less, compounded

annually.

Long-term expected return on plan assets

The long-term expected rate of return on pension plan investments was determined based on information provided by the Illinois State Board of Investments (ISBI) in conjunction with its investment consultant, Meketa Investment Group. The ISBI and Meketa Investment Group provided the simulated average 20-year annualized geometric return for each major asset class. These returns are combined to produce the long-term expected rate of return by weighting the expected future real rate of return by the target asset allocation percentage and by adding expected inflation. For each major asset class that is included in the pension plan's target asset allocation as of June 30, 2017, the 20-year simulated real rates of return are summarized in the following table:

	Asset Allocation		
	Target	20 Year Simulated	
Asset Class	Allocation	Real Rate of Return	
U.S. Equity	23%	5.5%	
Developed Foreign Equity	13%	5.3%	
Emerging Market Equity	8%	7.8%	
Private Equity	7%	7.6%	
Intermediate Investment Grade Bonds	14%	1.5%	
Long-term Government Bonds	4%	1.8%	
TIPS	4%	1.5%	
High Yield and Bank Loans	5%	3.8%	
Opportunistic Debt	8%	5.0%	
Emerging Market Debt	2%	3.7%	
Core Real Estate	5.5%	3.7%	
Non Core Real Estate	4.5%	5.9%	
Infrastructure	2%	5.8%	
Total	100%		

Discount Rate

A single discount rate of 6.58% was used to measure the total pension liability as of June 30, 2017. This represents an increase of 0.10% from the discount rate used for the June 30, 2016 valuation, 6.48%.

The single discount rate was based on an expected rate of return on pension plan investments of 6.75% and a municipal bond rate of 3.56% as of June 30, 2017. The projection of cash flows used to determine the single discount rates assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between statutory contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position and future contributions were sufficient to finance the benefit payments through the year 2062 at June 30, 2017. As a result, for fiscal year 2017, the long-term expected rate of return on pension plan investments was applied to projected benefit payments through 2062, and the municipal bond rate was applied to all benefit payments after that date.

Sensitivity of the net pension liability to changes in the discount rate

For fiscal year 2017, the following table presents the plan's net pension liability using a single discount rate of 6.58%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage point lower or 1-percentage point higher.

		June 30, 2017		
	-	Current		
	1% decrease	Discount Rate	1% increase	
	(5.58%)	(6.58%)	(7.58%)	
State's net pension liability	\$ 2,091,197,797	\$ 1,771,224,323	\$ 1,502,377,113	

7. Administrative Expenses

A summary of the administrative expenses for the Judges' Retirement System for fiscal year 2017 are listed below.

	2017
Personal services	\$388,112
Employee retirement contributions paid by employer	4,388
Employer retirement contributions	173,276
Social security contributions	28,669
Group insurance	82,146
Contractual services	164,111
Travel	6,607
Printing	385
Commodities	249
Telecommunications	1,072
Information technology	54,434
Automotive	1,767
Depreciation/amortization	6,670
Change in accrued compensated absences	2,292
Interest on lease obligation	227
Total	\$914,405

8. Compensated Absences

Employees of the Judges' Retirement System are entitled to receive compensation for all accrued but unused vacation time upon termination of employment. Additionally, employees of the System are entitled to receive compensation for one-half of the unused sick days that were earned on and after January 1, 1984 and before January 1, 1998, upon termination of employment. Accrued compensated absences as of June 30, 2017 total \$43,611 and are included in administrative expenses payable.

9. Pension Plan & Other Post-Employment Benefits

Plan Description. All of the System's full-time employees who are not eligible for participation in another state-sponsored retirement plan participate in the State Employees' Retirement System (SERS), which is a pension trust fund in the State of Illinois reporting entity.

The SERS is a single-employer defined benefit public employee retirement system (PERS) in which state employees participate, except those covered by the State Universities, Teachers', General Assembly, and Judges' Retirement Systems.

The financial position and results of operations of the SERS for fiscal year 2017 is included in the State of Illinois' Comprehensive Annual Financial Report (CAFR) for the year ended June 30, 2017. The SERS also issues a separate CAFR that may be obtained by writing to the SERS, 2101 South Veterans Parkway, Springfield, Illinois 62794-9255 or by calling 217-785-7202.

The State of Illinois' CAFR may be obtained by writing to the State Comptroller's Office, Financial Reporting Department, 325 West Adams St., Springfield, Illinois 62704-1858 or by calling 217-782-2053.

A summary of SERS' benefit provisions, changes in benefit provisions, employee eligibility requirements including eligibility for vesting, and the authority under which benefit provisions are established, are included as an integral part of the SERS' CAFR. Also included is a discussion of employer and employee obligations to contribute, and the authority under which those obligations are established.

Other Post-Employment Benefits. The State provides health, dental, vision, and life insurance benefits for retirees and their dependents in a program administered by the Department of Central Management Services. Substantially all State employees become eligible for post-employment benefits if they eventually become annuitants of one of the State sponsored pension plans. Health, dental, and vision benefits include basic benefits for annuitants and dependents under the State's self-insurance plan and insurance contracts currently in force. Annuitants may be required to contribute towards health, dental, and vision benefits with the amount based on factors such as date of retirement, years of credited service with the State, whether the annuitant is covered by Medicare, and whether the annuitant has chosen a managed health care plan. Annuitants who retired prior to January 1, 1998, and who are vested in the State Employee's Retirement System do not contribute towards health, dental, and vision benefits. For annuitants who retired on or after January 1, 1998, the annuitant's contribution amount is reduced 5% for each year of credited service with the State allowing those annuitants with twenty or more years of credited service to not have to contribute towards health, dental, and vision benefits. Annuitants also receive life insurance coverage equal to the annual salary of the last day of employment until age 60, at which time the benefit becomes \$5,000.

The State pays the System's portion of employer costs for the benefits provided. The total cost of the State's portion of health, dental, vision, and life insurance benefits of all members, including post-employment health, dental, vision, and life insurance benefits, is recognized as an expenditure by the State in the Illinois Comprehensive Annual Financial Report. The State finances the costs on a pay-as-you-go basis. The total costs incurred for health, dental, vision, and life insurance benefits are not separated by department or component unit for annuitants and their dependents nor active employees and their dependents.

A summary of post-employment benefit provisions, changes in benefit provisions, employee eligibility requirements including eligibility for vesting, and the authority under which benefit provisions are established are included as an integral part of the financial statements of the Department of Central Management Services. A copy of the financial statements of the Department of Central Management Services may be obtained by writing to the Department of Central Management Services, Stratton Office Building, 401 South Spring Street, Springfield, Illinois 62706.

10. Capital Assets

Capital assets over \$100 are capitalized at their cost at the time of acquisition. Depreciation is computed using the straight-line method over the estimated useful life of the asset. The estimated useful lives are as follows: (1) office furniture - 10 years, (2) equipment - 6 years, (3) certain electronic data processing equipment - 3 years, and (4) internally developed software - 20 years. The summary of changes in Capital Assets for fiscal year 2017 is as follows:

				2017				
	В	eginning Balance	1	Additions	Dela	etions		Ending Balance
Equipment	\$	34,728	\$	254	\$	-	\$	34,982
Accumulated depreciation	Ψ	(27,699)	Ψ	(3,744)	Ψ	_	Ψ	(31,443)
Internally developed software		44,222		14,287				58,509
		,		,		-		•
Accumulated amortization	_	(3,283)	_	(2,926)			_	(6,209)
Capital Assets, net	\$	47,968	\$	7,871	\$		\$	55,839

SCHEDULE OF CHANGES IN THE STATE'S NET PENSION LIABILITY AND RELATED RATIOS Fiscal Years Ended June 30, 2017 through 2014

	2017	2016
Total pension liability		
Service Cost	\$ 56,166,214	\$ 58,041,274
Interest on the total pension liability	168,163,770	158,611,299
Difference between expected and actual experience	23,042,316	(3,260,012)
Assumption changes	(29,511,474)	205,404,829
Benefit payments	(140,497,204)	(132,571,796)
Refunds	(974,665)	(658,051)
Administrative expense	(914,405)	(942,950)
Net change in total pension liability	75,474,552	284,624,593
	0.007.550.000	0.050.000.740
Total pension liability - beginning	2,637,553,303	2,352,928,710
Total pension liability - ending (a)	\$2,713,027,855	\$2,637,553,303
Dien fielusiew, net position		
Plan fiduciary net position Contributions - employer	\$ 131,334,000	\$ 132,060,000
Contributions - employer Contributions - participant	14,770,467	14,962,055
Net investment income	97,796,479	(6,470,553)
	(140,497,204)	(132,571,796)
Benefit payments Refunds	(974,665)	(658,051)
	(914,405)	(942,950)
Administrative expense	101,514,672	6,378,705
Net change in plan fiduciary net position	101,514,072	0,070,700
Plan fiduciary net position - beginning	840,288,860	833,910,155
Plan fiduciary net position - ending (b)	\$ 941,803,532	\$ 840,288,860
State's net pension liability - ending (a)-(b)	\$1,771,224,323	\$1,797,264,443
Plan fiduciary net position as a percentage		
of the total pension liability	34.71%	31.86%
Covered payroll	\$ 139,737,508	\$ 139,537,967
State's net pension liability as a percentage		
of covered payroll	1,267.54%	1,288.01%

SCHEDULE OF CHANGES IN THE STATE'S NET PENSION LIABILITY AND RELATED RATIOS Fiscal Years Ended June 30, 2017 through 2014

	2015	2014
Total pension liability		
Service Cost	\$ 59,619,744	\$ 57,138,961
Interest on the total pension liability	151,431,750	145,993,903
Difference between expected and actual experience	28,713,856	4,490,010
Assumption changes	9,482,302	-
Benefit payments	(125,654,349)	(118,590,965)
Refunds	(945,807)	(687,923)
Administrative expense	(982,656)	(831,652)
Net change in total pension liability	121,664,840	87,512,334
Total pension liability - beginning	2,231,263,870	2,143,751,536
Total pension liability - ending (a)	\$ 2,352,928,710	\$ 2,231,263,870
Plan fiduciary net position		
Contributions - employer	\$ 134,039,684	\$ 126,815,881
Contributions - participant	15,431,105	15,918,732
Net investment income	36,009,150	110,058,987
Benefit payments	(125,654,349)	(118,590,965)
Refunds	(945,807)	(687,923)
Administrative expense	(982,656)	(831,652)
Net change in plan fiduciary net position	57,897,127	132,683,060
Plan fiduciary net position - beginning	776,013,028	643,329,968
Plan fiduciary net position - ending (b)	<u>\$ 833,910,155</u>	\$ 776,013,028
State's net pension liability - ending (a)-(b)	\$ 1,519,018,555	\$ 1,455,250,842
Plan fiduciary net position as a percentage		
of the total pension liability	35.44%	34.78%
Covered payroll	\$ 145,903,074	\$ 150,280,023
State's net pension liability as a percentage	1 0/1 110/	060 060/
of covered payroll	1,041.11%	968.36%

Notes to the Schedule of Changes in the State's Net Pension Liability and Related Ratios

Valuation Date: June 30, 2017

This Schedule is intended to show information for ten (10) years. Information prior to 2014 is not available. The additional years will be added, prospectively, as they become available.

Key Assumption changes related to the Schedule of Changes in the State's Net Pension Liability and Related Ratios

2017 Changes in Assumptions:

There were no significant assumption changes.

2016 Changes in Assumptions:

- The rate of inflation decreased from 3.00% to 2.75%.
- The investment return assumption was decreased from 7.00% to 6.75%.
- The salary increase assumption was changed from 3.75% to 3.00% per year, compounded annually. That rate includes a 0.25 per year productive/merit/promotion component.
- Turnover rates were increased for both Tier 1 and Tier 2 members. For Tier 2 members with less than
 five years of service, the turnover rate was increased to a flat rate of 1.75%.
- The overall normal retirement rates were decreased to better reflect observed experience.
- Generational mortality improvement factors were added to reflect future mortality improvements. The
 new mortality tables move from a single dimensional age-based table to a two dimensional table
 where the year of a person's birth influences their mortality rate.

2015 Changes in Assumptions:

There were no significant assumption changes.

SCHEDULE OF INVESTMENT RETURNS

	2017	2016	2015	2014
Annual money-weighted rate of return,				
net of investment expense	12.4%	(0.6)%	5.1%	17.5%

* **NOTE:** This Schedule is intended to show information for ten (10) years. Information prior to 2014 is not available. The additional years will be added, prospectively, as they become available.

SCHEDULE OF STATE CONTRIBUTIONS

	Actuarially				Contributions received as a
Fiscal Year	determined	Contributions	Contribution	Covered	percentage of covered
Ended June 30	contribution	received	(deficiency) excess	Payroll	payroll
2008	\$75,134,070	\$46,977,961	\$(28,156,109)	\$143,700,000	32.69%
2009	78,386,597	59,983,000	(18,403,597)	155,645,000	38.54%
2010	86,916,418	78,509,810	(8,406,608)	161,164,000	48.71%
2011	95,490,182	62,694,460	(32,795,722)	169,155,000	37.06%
2012	110,923,357	63,644,099	(47,279,258)	153,550,766	41.45%
2013	125,576,795	88,239,564	(37,337,231)	156,142,183	56.51%
2014	125,061,595	126,815,881	1,754,286	150,280,023	84.39%
2015	124,215,990	134,039,684	9,823,694	145,903,074	91.87%
2016	121,362,703	132,060,000	10,697,297	139,537,967	94.64%
2017	152,699,188	131,334,000	(21,365,188)	139,737,508	93.99%

Notes to Schedule of State Contributions

Valuation Date: June 30, 2015

Notes Actuarially determined contribution rates are calculated as of June 30, which is 12 months

prior to the beginning of the fiscal year in which the contributions will be made.

Covered payroll for fiscal years on and after June 30, 2012, were restated to comply with the requirements of GASB Statement No. 82. For fiscal years prior to June 30, 2012, covered payroll was not restated to comply with the requirements of

GASB Statement No. 82 due to system limitations.

Methods and Assumptions Used to Determine Contribution Rates as of the Valuation Date

Actuarial Cost Method: Projected Unit Credit

Amortization Method: Normal cost plus a level percentage of uncapped payroll amortization of the un-

funded accrued liability.

Remaining Amortization Period: 25 years, closed.

Asset Valuation Method: 5 year smoothed market

Inflation: 3.00%

Salary Increases: A salary increase assumption of 3.75% per annum, compounded annually, was

used. This 3.75% salary increase assumption includes an inflation component of 3.00% per annum, a productivity component of 0.60% per annum, and a merit/

promotion component of 0.15 per cent per annum.

Post Retirement Benefits: Post-retirement benefit increases of 3.00%, compounded, for Tier 1 and 3.00%

or the annual change in the Consumer Price Index, whichever is less, compound-

ed for Tier 2.

Investment Rate of Return: 7.00%

Retirement Age: Age-based table of rates that are specific to the type of eligibility condition

Mortality: RP-2000 Combined Healthy Mortality Table, sex distinct, projected to 2015 (static

table) setback three (3) years for males and two (2) years for females

SUPPLEMENTARY FINANCIAL INFORMATION

SUMMARY OF REVENUES BY SOURCE Year Ended June 30, 2017

		2017
Contributions:		
Participants:		
Participants	\$	14,732,963
Interest paid by participants		37,504
Repayment of refunds	_	-
Total participant contributions	_	14,770,467
Employer:		
General Revenue Fund		131,334,000
Paid by participants		<u>-</u>
Total employer contributions		131,334,000
Total contributions revenue	_	146,104,467
Investment income:		
Net appreciation/(depreciation) in fair value of investments		77,594,390
Interest and dividends from investments		21,394,262
Interest earned on cash balances		320,522
Less investment expense, other than from		
securities lending		(1,558,941)
Net income (loss) from investing, other than from		
securities lending		97,750,233
Net securities lending income		46,246
Net investment income (loss)		97,796,479
Total revenues	\$	243,900,946

SCHEDULE OF PAYMENTS TO CONSULTANTS Year Ended June 30, 2017

	2017
Actuary	\$ 46,200
Audit fees	33,454
Legal services	66
Total	\$79,720

SUPPLEMENTARY FINANCIAL INFORMATION

2017

135,850,315

SUMMARY SCHEDULE OF CASH RECEIPTS AND DISBURSEMENTS Year Ended June 30, 2017

Cash balance, beginning of year	\$ 49,540,595
Receipts:	
Participant contributions	14,779,320
Employer contributions:	
General Revenue Fund	120,419,750
Paid by participants	-
Interest income on cash balances	311,677
Reimbursements from General Assembly Retirement System	236,586
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Tiombardomente from General Accombly Hethernorit Gyetem	,
Cancellation of annuities, net of overpayments	102,874
Cancellation of refunds	-
Tax-deferred installment payments	-
Repayment of refunds	-
Transfers from Illinois State Board of Investment	-
Miscellaneous	108

Disbursements:

Total cash receipts

Donone paymontor	
Retirement annuities	116,649,577
Survivors' annuities	23,918,065
Temporary disability	40,417
Refunds	973,609
Transfers to Illinois State Board of Investment	17,000,000
Administrative expenses	1,151,280
Total cash disbursements	159,732,948
Cash balance, end of year	\$ 25,657,962



Independent Auditor's 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

RSM US LLP

Honorable Frank J. Mautino Auditor General, State of Illinois

Board of Trustees Judges' Retirement System of the State of Illinois

As Special Assistant Auditors for the Auditor General, we have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Judges' Retirement System of the State of Illinois (System), as of and for the year ended June 30, 2017, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents, and have issued our report thereon dated January 19, 2018. Our report includes a reference to other auditors who audited the financial statements of the Illinois State Board of Investment, an internal investment pool of the State of Illinois, as described in our report on the System's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the System's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances 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 a 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. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the System's financial statements are free from 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*.

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Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the System's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the System's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

SIGNED ORIGINAL ON FILE

Schaumburg, Illinois January 19, 2018

Judges' Retirement System of the State of Illinois Financial Audit

Prior Finding Not Repeated – Government Auditing Standards

Year Ended June 30, 2017

A. Finding - Noncompliance with the Fiscal Control and Internal Auditing Act

In the prior year, the Judges' Retirement System (System) was not in compliance with the Fiscal Control and Internal Auditing Act (the Act). The Act (30 ILCS 10/2003) required the chief executive officer to ensure that internal audits of all major systems of internal control are conducted at least once every two years. The System was unable to complete internal audits of all major systems of internal control at least every two years as required by the Act.

During the current fiscal year, the System's Board created and funded an additional internal auditor position to aid the Chief Internal Auditor in performing audit duties. The additional internal auditor allowed the internal audit department to complete the required internal audits of all major systems of internal control in fiscal years 2016 and 2017.