Judicial Retirement Benefits Trust State of Rhode Island

ACTUARIAL VALUATION

June 30, 2005



5605 N. MacArthur Blvd. Suite 870 Irving, TX 75038-2631

June 14, 2006

Retirement Board 40 Fountain Street, First Floor Providence, RI 02903-1854

Dear Members of the Board:

Subject: Actuarial Valuation of the JRBT as of June 30, 2005

This is the June 30, 2005 actuarial valuation of the Judicial Retirement Benefits Trust (JRBT). This report describes the current actuarial condition of the JRBT, determines the recommended employer contribution rate, and analyzes changes in the contribution rate. Valuations are prepared annually, as of June 30, the last day of the JRBT plan year. Benefits for state judges hired before January 1, 1990 are funded by the state from general assets, on a pay-as-you-go basis, and are not included in this valuation.

Under Rhode Island General Laws, the employer contribution rate for Judges is certified annually by the State of Rhode Island Retirement Board. This rate is determined actuarially, based on the plan provisions in effect as of the valuation date and the actuarial assumptions and methods adopted by the Board or set by statute. The Board's current policy is that the contribution rate determined by a given actuarial valuation becomes effective two years after the valuation date. For example, the rate determined by the June 30, 2005 actuarial valuation will be applicable for the year beginning July 1, 2007 and ending June 30, 2008.

Financing objectives and funding policy

The actuarial cost method and the amortization periods are set by statute. Contribution rates and liabilities are computed using the Entry Age actuarial cost method. The employer contribution rate is the sum of two pieces: the employer normal cost rate and the amortization rate. The normal cost rate is determined as a percent of pay. The employer normal cost rate is the difference between this and the member contribution rate. The amortization rate is determined as a level percent of pay. It is the amount required to amortize the unfunded actuarial accrued liability over a closed period (30 years as of June 30, 1999, 24 years from June 30, 2005). The amortization rate is adjusted for the two-year deferral in contribution rates.

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Progress toward realization of financing objectives

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. In the absence of benefit improvements, it should increase over time, until it reaches 100%. The funded ratio, as can be seen on Table 3, increased from 73.3% to 87.0%. The employer contribution rate decreased from 36.07% to 32.07%. An analysis of the changes in the employer contribution rate appears on Table 10a.

Benefit provisions

The benefit provisions reflected in this valuation are those which were in effect on June 30, 2005. There were no changes adopted since the previous actuarial valuation. The benefit provisions are summarized in Appendix B.

Assumptions and methods

All assumptions and methods are described in Appendix A and are unchanged from the last valuation. The actuarial assumptions were approved by the Board on August 11, 2004. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of JRBT.

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates and funding periods. The actuarial calculations are intended to provide information for rational decision making.

The actuarial assumptions and methods used in this report comply with the parameters for disclosure that appear in GASB 25.

Data

The System's staff supplied data for active members and retirees as of June 30, 2005. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data. The System's staff also supplied asset data as of June 30, 2005.

Certification

All of our work conforms with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

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In our opinion, our calculations also comply with the requirements of Rhode Island state law and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board. The undersigned are independent actuaries. Both are Members of the Society of Actuaries and Members of the American Academy of Actuaries, they both meet the Qualification Standards of the American Academy of Actuaries, and they are experienced in performing valuations for large public retirement systems.

Sincerely, Gabriel, Roeder, Smith & Company

Alerto

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	Valuation Date:			ate:
Item	J	une 30, 2005	J	une 30, 2004
 Membership Number of: Active members Retirees and beneficiaries Inactive members Total Payroll supplied by ERSRI, annualized 	\$	44 2 - 46 5,684,585	\$	44 2 - 46 5,637,865
Contribution rates Member State 		8.75% 32.07%		8.75% 36.07%
Assets Market value Actuarial value Return on market value Return on actuarial value Employer contribution Ratio of actuarial value to market value 	\$ \$	19,892,509 19,347,372 10.2% 5.9% 2,056,558 97.3%	\$ \$	15,844,213 16,019,053 18.0% 4.1% 1,830,205 101.1%
 Actuarial Information Employer normal cost % Unfunded actuarial accrued liability (UAAL) Amortization rate Funding period GASB funded ratio 	\$	29.63% 2,903,356 2.44% 24 years 87.0%	\$	30.42% 5,826,691 5.65% 25 years 73.3%
 Projected employer contribution Fiscal year ending June 30, Projected payroll Projected employer contribution 	\$	2008 6,627,734 2,125,514	\$	2007 6,573,262 2,370,976

Contribution Rates

The employer contribution rate for JRBT is determined actuarially. The rate determined in this valuation becomes effective two years after the valuation date, in this case as of July 1, 2007.

The rate consists of two pieces: the employer's normal cost rate and the amortization rate. The normal cost rate is the Entry Age Normal cost as a percent of pay. The amortization rate is the unfunded actuarial liability amortized over 24 years as a level percent of pay.

The decrease in the employer contribution rate, from 36.07% to 32.07%, was principally due to actual salary increases being less than expected, and to changes made to reported member service. (It was discovered that the reported service for some members included non-judicial service, and this was corrected.) This was partially offset by the recognition of another 20% of the actuarial asset losses from fiscal years 2001 through 2003.

An analysis of the changes in the employer contribution rate appears on Table 10a and a history of the employer contribution rates appears on Table 10b.

Financial Data and Experience

Assets for JRBT are held in trust and are commingled with those of several other plans and programs—including the Employees' Retirement System of Rhode Island—for investment purposes. The State Treasurer is responsible for setting the asset allocation policy and for investing the funds.

Table 5 shows the net plan assets for JRBT. Table 6 shows a reconciliation of the assets between the previous valuation and this valuation. Table 7 shows the development of the actuarial value of assets. Table 8 shows the distribution of investments by category—67% of assets at market value are held in equities—and Table 9 shows a historical summary of the return rates. As can be seen, the market value rate of return was 10.2 % for the year ended June 30, 2005, and the return on an actuarial asset value basis was 5.9 %.

The average annual return based on the market value of assets over the last ten years (July 1, 1995 – June 30, 2005) was 7.64%. This is less than the current 8.25% annual investment return assumption.

The average annual return based on the actuarial value of assets over the same period was 8.82%.

The System's staff provided all of the financial information used in this report.

Member Data

The System's staff supplied member data as of June 30, 2005. While we did not audit this data, we did perform various tests to ensure that it was internally consistent, consistent with the prior year's data, and was reasonable overall. Information provided for active members includes: name, identification number, sex, a code indicating whether the member was active or inactive, date of birth, service, salary, date of last contribution, and accumulated member contributions without interest. There were also two retirees as of June 30, 2005.

During processing for this valuation, it was discovered that the service reported for some judges included non-judicial service earned in ERSRI. This was corrected, resulting in a decrease in the normal cost, the unfunded actuarial accrued liability, and the employer contribution rate.

Table 11 and Table 12 show information and statistics about the active and retired members. Table 13 shows the distribution of active members by age and service.

The total payroll shown on the statistical tables is the amount that was supplied by the System's staff. For the liability calculations, reported pays were adjusted in accordance with the actuarial assumptions to reflect one year's salary increase.

Benefit Provisions

Appendix B includes a summary of the benefit provisions for JRBT. There were no material changes in the benefit provisions since the preceding valuation.

There are no ancillary benefits—e.g., cost of living benefits—that are currently provided by a source independent of JRBT but that might be deemed a JRBT liability if continued beyond the availability of funding by the current funding source.

Actuarial Methods and Assumptions

Appendix A includes a summary of the actuarial assumptions and methods used in this valuation. Costs are determined using the Entry Age Normal actuarial cost method. This method was adopted effective June 30, 1999.

The method used to determine the actuarial value of assets is a five-year smoothed market method. This technique is further described in Section III of Appendix A. The development of the actuarial value of assets utilizing this method is shown on Table 7.

All assumptions and methods are described in Appendix A and are unchanged from the last valuation. The actuarial assumptions were approved by the Board on August 11, 2004. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of ERSRI.

GASB 25 and Funding Progress

Accounting requirements for JRBT are set by Governmental Accounting Standards Board Statement No. 25 (GASB 25). Table 3 shows a historical summary of the funded ratios and other information for JRBT. Table 4 shows other information needed in connection with disclosure under GASB 25.

GASB 25 requires that plans calculate an Annual Required Contribution (ARC), and, if actual contributions received are less than the ARC, this must be disclosed. The ARC must be calculated in accordance with certain parameters. In particular, it must include a payment to amortize the unfunded actuarial accrued liability. This amortization payment must be computed using a funding period no greater than 30 years. Further, the amortization payment included in the ARC may be computed as a level amount, or it may be computed as an amount that increases with payroll. However, if payments are computed on a level percent of payroll approach, the payroll growth assumption may not anticipate future membership growth.

For JRBT, the calculated contribution rate shown in Table 1 is the ARC. The amortization period was established as 30 years as of June 30, 1999, and there are 24 years remaining as of June 30, 2005. The period and amortization method comply with the requirements of GASB 25. The payroll growth rate used in the amortization calculations does not include any allowance for membership growth.

	J	une 30, 2005	J	une 30, 2004
1. Compensation				
(a) Supplied by ERSRI, annualized	\$	5,684,585	\$	5,637,865
(b) Adjusted for one-year's pay increase		5,983,026		5,933,853
2. Actuarial accrued liability		22,250,728		21,845,744
3. Actuarial value of assets		19,347,372		16,019,053
4. Unfunded actuarial accrued liability (UAAL) (2 - 3)		2,903,356		5,826,691
5. Remaining amortization period at valuation date		24		25
6. Contribution effective for fiscal year ending:		June 30, 2008		June 30, 2007
7. Base pay projected for two-year delay		6,627,734		6,573,262
8. Amortization of UAAL		161,908		371,305
9. Normal cost				
(a) Total normal cost rate		38.38%		39.17%
(b) Employee contribution rate		8.75%		8.75%
(c) Employer normal cost rate (a - b)		29.63%		30.42%
10. Employer contribution rate as percent of payroll				
(a) Employer normal cost rate		29.63%		30.42%
(b) Amortization payments (8/7)		2.44%		5.65%
(c) Total $(a+b)$		32.07%		36.07%
11. Estimated employer contribution amount (7 * 10(c))	\$	2,125,514	\$	2,370,976

Development of Contribution Rate (Judges)

TABLE 2

Actuarial Present Value of Future Benefits

		Jı	une 30, 2005	Jı	une 30, 2004
			(1)		(2)
1.	Active members				
	a. Service retirement benefits	\$	37,490,180	\$	38,674,180
	b. Deferred termination benefits		-		-
	c. Refunds		-		-
	d. Pre-retirement death benefits		2,067,723		2,048,516
	e. Non-occupational disability retirement benefits		-		-
	f. Occupational disability retirement benefits		-		-
	g. Total	\$	39,557,903	\$	40,722,696
2.	Retired members				
	a. Service retirements	\$	853,167	\$	861,501
	b. Disability retirements		-		-
	c. Beneficiaries		377,760		378,805
	d. Total	\$	1,230,927	\$	1,240,306
3.	Inactive members	\$	-	\$	-
4.	Total actuarial present value of future benefits	\$	40,788,830	\$	41,963,002
5.	Determination of actuarial accrued liability				
	a. Total actuarial present value of future benefits	\$	40,788,830	\$	41,963,002
	b. Less present value of future normal costs		(18,538,102)		(20,117,258)
	c. Actuarial accrued liability (a + b)	\$	22,250,728	\$	21,845,744

			Unfunded Actuarial Accrued Liability			
Valuation Date	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability	(UAAL) (3)-(2)	Funded Ratio (2)/(3)	Annual Covered Payroll	UAAL as % of Payroll (4)/(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
June 30, 1999	5,521,693	7,415,237	1,893,544	74.5%	3,169,183	59.7%
June 30, 2000	7,374,851	9,719,608	2,344,757	75.9%	3,533,354	66.4%
June 30, 2001	9,190,325	12,026,257	2,835,932	76.4%	4,092,423	69.3%
June 30, 2002	11,129,208	16,243,709	5,114,501	68.5%	4,738,059	107.9%
June 30, 2003	13,270,977	18,435,395	5,164,418	72.0%	5,303,153	97.4%
June 30, 2004	16,019,053	21,845,744	5,826,691	73.3%	5,637,865	103.3%
June 30, 2005	19,347,372	22,250,728	2,903,356	87.0%	5,684,585	51.1%

Schedule of Funding Progress (As required by GASB #25)

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

Valuation date	June 30, 2005
Actuarial cost method	Entry Age Normal
Amortization method	Level percentage, closed
Remaining amortization period	24 years
Asset valuation method	5-Yr Smoothed Market
Actuarial assumptions:	
Investment rate of return *	8.25%
Projected salary increase *	5.25%
* Includes inflation at:	3.00%
Cost of living adjustment	3.00%

	Item	Ju	ine 30, 2005	Jı	ine 30, 2004
	(1)		(2)		(3)
1.	Cash and cash equivalents	\$	174,550	\$	170,589
2.	Receivables: a. Employer and member contributions b. Transfers receivable	\$	17,901	\$	18,342
	c. Miscellaneous		-		44
	d. Total receivables	\$	17,901	\$	18,386
3.	Investments a. Pooled trust	\$	19,699,922	\$	15,649,831
	b. Plan specific investments	Ŧ		Ŧ	
	c. Total	\$	19,699,922	\$	15,649,831
4.	Invested securities lending collateral	\$	2,987,786	\$	2,047,351
5.	Property and equipment	\$	19,399	\$	20,191
6.	Total assets	\$	22,899,558	\$	17,906,348
7.	Liabilities				
	a. Benefits payable	\$	-	\$	-
	b. Securities lending liability		2,987,786		2,047,351
	c. Accounts and vouchers payable		19,263		14,784
	d. Total liabilities	\$	3,007,049	\$	2,062,135
8.	Total market value of assets available for benefits				

Plan Net Assets (Assets at Market or Fair Value)

8. Total market value of assets available for benefits Total (Item 6 - Item 7)
\$ 19,892,509
\$ 15,844,213

Reconciliation of Plan Net Assets

		Ju	ine 30, 2005	Ju	ine 30, 2004
1.	Market value of assets as of beginning of year	\$	15,844,213	\$	11,441,463
2.	 Contributions a. Members b. State c. Service purchases d. Total 	\$	497,233 2,056,558 	\$ \$	472,389 1,830,205 2,302,594
3.	Investment earnings, net of investment expenses	\$	1,764,696	\$	2,259,036
4.	Expenditures for the year				
	 a. Benefit payments b. Cost-of-living adjustments c. Post-retirement death benefits d. Pre-retirement death benefits e. Social security supplements f. Supplemental pensions g. Refunds h. Administrative expenses i. Total expenditures 	\$	(145,209) (7,706) - - - (91,431) (25,845) (270,191)	\$	(145,209) (4,146) - - - - (9,525) (158,880)
5.	Transfers and other adjustments	\$	-	\$	-
6.	Market value of assets at end of year	\$	19,892,509	\$	15,844,213

			ear Ending ne 30, 2005
1.	Market value of assets at beginning of year	\$	15,844,213
2.	Net new investments		
	 a. Contributions b. Benefits paid c. Refunds d. Subtotal 	\$	2,553,791 (152,915) (91,431) 2,309,445
3.	Market value of assets at end of year	\$	19,892,509
4.	Net earnings (3-1-2)	\$	1,738,851
5.	Assumed investment return rate		8.25%
6.	Expected return	\$	1,402,412
7.	Excess return (4-6)	\$	336,439
8.	Excess return on assets as of 06/30/2005:		
	Period End Excess Return Percent Deferred	Def	erred Amount

Development of Actuarial Value of Assets

	Period End	Excess Return	Percent Deferred	Def	erred Amount
	(1)	(2)	(3)		(4)
	June 30, 2002	(1,487,784)	20%		(297,557)
	June 30, 2003	(391,296)	40%		(156,518)
	June 30, 2004	1,216,769	60%		730,061
	June 30, 2005	336,439	80%		269,151
				\$	545,137
9.	Actuarial value of assets a	s of 06/30/2005,	(Item 3 - Item 8)	\$	19,347,372
10.	Ratio of actuarial value to	market value			97.3%

Item	June 30, 2005	June 30, 2004
(1)	(2)	(3)
Cash & cash equivalents	3.3%	1.9%
U.S. government & agency securities	14.3%	14.3%
Corporate bonds & notes	8.5%	9.3%
Foreign bonds	0.7%	0.5%
U.S. equity securities	45.1%	54.2%
Foreign equity securities	21.7%	14.1%
Real estate, venture capital, other	6.4%	5.7%
Total investments	100.0%	100.0%

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

Year Ending June 30 of	Market	Actuarial
(1)	(2)	(3)
1995	17.0%	10.2%
1996	13.7%	13.7%
1997	19.1%	19.1%
1998	16.1%	16.5%
1999	10.1%	14.7%
2000	9.1%	8.8%
2001	(11.0%)	4.9%
2002	(8.4%)	0.9%
2003	4.3%	1.4%
2004	18.0%	4.1%
2005	10.2%	5.9%

History of Investment Return Rates

Analysis of Change in Employer Cost

	Basis	Employer Cost		
1. 2.	Employer contribution rates from prior valuation	36.07%		
2.	Impact of changes, gains and losses a. Non-salary liability experience (gain)/loss	(3.53%)		
	b. Salary (gain)/loss	(1.03%)		
	c. Total payroll growth (gain)/loss	0.12%		
	d. Investment experience (gain)/loss	0.44%		
	e. Changes in assumptions	0.00%		
	f. Changes in plan provisions	0.00%		
	g. Total	(4.00%)		
3.	Employer contribution rates from current valuation	32.07%		

Valuation Date as of June 30,	Fiscal Year Ending June 30,	Employer Contribution Rate (3)				
(1)	(2)					
1998	2001	31.09%				
1999	2002	31.58%				
2000	2003	33.42%				
2001	2004	33.90%				
2002	2005	36.19%				
2003	2006	35.51%				
2004	2007	36.07%				
2005	2008	32.07%				

History of Employer Contribution Rates

Membership Data (State Judges)

		Ju	ne 30, 2005	June 30, 2004		
			(1)		(2)	
1.	Active members					
	a. Number		44		44	
	b. Number vested		7		4	
	c. Total annualized payroll supplied by State	\$	5,684,585	\$	5,637,865	
	d. Average salary	\$	129,195	\$	128,133	
	e. Average age		58.3		56.9	
	f. Average service		8.4		8.2	
2.	Inactive members					
	a. Number		0		0	
3.	Service retirees					
	a. Number		1		1	
	b. Total annual benefits	\$	100,428	\$	97,664	
	c. Average annual benefit	\$	100,428		97,664	
	d. Average age		77.0		76.0	
4.	Disabled retirees					
	a. Number		0		0	
	b. Total annual benefits	\$	-	\$	-	
	c. Average annual benefit		N/A		N/A	
	d. Average age		N/A		N/A	
5.	Beneficiaries and spouses					
	a. Number		1		1	
	b. Total annual benefits	\$	54,665	\$	53,073	
	c. Average annual benefit	\$	54,665	\$	53,073	
	d. Average age		76.7		75.7	

_	Active M	Members	Covered	 Average	Salary			
Valuation as of June 30,	Number	Percent Increase	Amount	Percent Increase	 Amount	Percent Increase	Average Age	Average Service
(1)	(2)	(3)	(4)	(5)	 (6)	(7)	(8)	(9)
1996	27		\$ 2,596,860		\$ 96,180		51.5	3.2
1997	28	3.7%	2,815,218	8.4%	100,544	4.5%	53.0	4.1
1998	29	3.6%	3,039,957	8.0%	104,826	4.3%	54.0	4.9
1999	29	0.0%	3,169,183	4.3%	109,282	4.3%	55.0	5.9
2000	31	6.9%	3,533,354	11.5%	113,979	4.3%	55.9	6.5
2001	35	12.9%	4,092,423	15.8%	116,926	2.6%	55.4	6.4
2002	39	11.4%	4,738,059	15.8%	121,489	3.9%	55.6	7.5
2003	42	7.7%	5,303,153	11.9%	126,266	3.9%	55.8	7.6
2004	44	4.8%	5,637,865	6.3%	128,133	1.5%	56.9	8.2
2005	44	0.0%	5,684,585	0.8%	129,195	0.8%	58.3	8.4

Historical Summary of Active Member Data

	Years of Credited Service												
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35 & Over	Total
Attained	Count &	Count &	Count &	Count &	Count &	Count &	Count &	Count &	Count &	Count &	Count &	Count &	Count &
Age	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.	Avg. Comp.
Under 30	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30-34	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35-39	0	0	0	0	0	0	0	0	0	0	0	0	0
33 37	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0
40-44	0	0	0	0	0	0	0		0	0	0	0	0
40-44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 10		φ0											
45-49	0	¢142.900	¢127.516	0	£115.890	0	¢120.247	0	0	0	0	0 ©	\$109.769
	\$0	\$143,860	\$137,516	\$0	\$115,889	\$0	\$129,247	\$0	\$0	\$0	\$0	\$0	\$128,768
50-54	0	0	0	3	2	1	3	0	0	0	0	0	9
	\$0	\$0	\$0	\$123,636	\$121,532	\$123,328	\$140,712	\$0	\$0	\$0	\$0	\$0	\$128,826
55-59	0	1	1	0	0	1	4	0	0	0	0	0	7
	\$0	\$125,558	\$132,816	\$0	\$0	\$131,537	\$139,682	\$0	\$0	\$0	\$0	\$0	\$135,520
60-64	0	1	1	0	2	1	5	0	0	0	0	0	10
	\$0	\$112,116	\$131,736	\$0	\$118,650	\$112,116	\$125,740	\$0	\$0	\$0	\$0	\$0	\$122,197
65-69	1	0	0	0	0	1	4	0	0	0	0	0	6
	\$132,816	\$0	\$0	\$0	\$0	\$153,403	\$126,973	\$0	\$0	\$0	\$0	\$0	\$132,352
70 & Over	0	0	0	0	0	1	3	0	0	0	0	0	4
70 a 070	\$0	\$0	\$0	\$0	\$0	\$135,676	\$131,537	\$0	\$0	\$0	\$0	\$0	\$132,572
	φo												
Total	1	\$	\$	\$	6	5 ¢101010	23	0	0	0	0	0	44
	\$132,816	\$127,178	\$134,023	\$123,636	\$118,690	\$131,212	\$131,698	\$0	\$0	\$0	\$0	\$0	\$129,195

Distribution of Active Members by Age and by Years of Service As of 06/30/2005

SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

I. Valuation Date

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

II. Actuarial Cost Method

The actuarial valuation uses the Entry Age Normal actuarial cost method. Under this method, the employer contribution rate is the sum of (i) the employer normal cost rate, and (ii) a rate that will amortize the unfunded actuarial liability.

- 1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 8.25 percent), of each participant's expected benefit payable at retirement or death is determined, based on his age, service, sex and compensation. The calculations take into account the probability of a participant's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service or survivor's benefit. Future salary increases are also anticipants is added to the present value of the expected future payments to retired participants and beneficiaries to obtain the present value of all expected benefits payable from the Plan on account of the present group of participants and beneficiaries.
- 2. The employer contributions required to support the benefits of the Plan are determined following a level funding approach, and consist of a normal contribution and an accrued liability contribution.
- 3. The normal contribution is determined using the "entry age normal" method. Under this method, a calculation is made to determine the average uniform and constant percentage rate of employer contribution which, if applied to the compensation of each new participant during the entire period of his anticipated covered service, would be required in addition to the contributions of the participant to meet the cost of all benefits payable on his behalf.

4. The unfunded accrued liability contributions are determined by subtracting the actuarial value of assets from the actuarial accrued liability and amortizing the result as a level percentage of payroll over the remainder of a closed 30 year period from June 30, 1999.

The contribution rate determined by this valuation will not be effective until two years later, and the determination of the rate reflects this deferral. It is assumed that there will be no change in the employer normal cost rate due to the deferral, and it is assumed that payments are made monthly throughout the year.

III. Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses.

IV. Actuarial Assumptions

A. Economic Assumptions

- 1. Investment return: 8.25% per year, compounded annually, composed of an assumed 3.00% inflation rate and a 5.25% net real rate of return. This rate represents the assumed return, net of all investment and administrative expenses.
- 2. Salary increase rate: Salaries are assumed to increase at the rate of 5.25% per year.

Salary increases are assumed to occur once a year, on July 1. Therefore the pay used for the period between the valuation date and the first anniversary of the valuation date is equal to the reported pay for the prior year, increased by the salary increase assumption.

3. Payroll growth rate: In the amortization of the unfunded frozen liability, payroll is assumed to increase 5.25% per year. This assumption includes no allowance for future membership growth.

B. Demographic Assumptions

- 1. Mortality rates
 - a. Healthy males Based on the 1994 Group Annuity Mortality Table for males. Rates are set forward one year.
 - b. Healthy females Based on the 1994 Group Annuity Mortality Table for females.
- 2. Disability rates None
- 3. Termination rates None
- 4. Retirement rates Judges are assumed to retire when eligible for an unreduced retirement benefit (age 65 with 20 years of service, or age 70 with 15 years of service). Judges who have not reached eligibility for an unreduced retirement benefit by age 75 are assumed to terminate at age 75 and receive either a reduced retirement benefit, if eligible, or a refund.
- C. Other Assumptions
 - 1. Percent married: 85% of employees are assumed to be married.
 - 2. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
 - 3. No surviving spouse will remarry and there will be no children's benefit.
 - 4. Administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.

V. <u>Participant Data</u>

Participant data was supplied in electronic files for active members and retirees. The data for active members included birth date, sex, service, salary and employee contribution account balance. For retired members and beneficiaries, the data included date of birth, sex, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and a form of payment code.

Summary of Benefit Provisions

- <u>Effective Date and Authority</u>: The Judicial Retirement Fund (JRF) became effective on January 1, 1990 for judges hired on or after that date. Benefits are described in Rhode Island General Laws, Title 8, Chapters 3, 8, and 16, Title 28, Chapter 30, and Title 31, Chapter 43.
- 2. <u>Plan Year</u>: A twelve-month period ending June 30th.
- <u>Administration</u>: The Judicial Retirement Fund is administered by the State of Rhode Island Retirement Board. However, the State Treasurer is responsible for the investment of the trust assets, including the establishment of the asset allocation policy. Assets are commingled for investment purposes with those of the Employees' Retirement System of Rhode Island and various other plans and programs.
- 4. <u>Type of Plan</u>: The Judicial Retirement Fund is a qualified governmental defined benefit retirement plan. For Governmental Accounting Standards Board purposes, it is a single-employer plan.
- 5. <u>Eligibility</u>: All judges or justices of the Supreme Court, a superior court, a district court, a family court, an administrative adjudication court or a workers' compensation court participate in this plan if they were hired on or after January 1, 1990. (These are referred to collectively as state judges.) Benefits for state judges hired before January 1, 1990 are being paid by the state from the general assets of the state, on a pay-as-you-go basis. Eligible state judges become members at their date of employment.
- 6. <u>Salary</u>: Contributions are based on the judge's salary. Benefits are based on the judge's salary at the time of retirement.
- 7. <u>Employee Contributions</u>: State judges contribute 8.75% of their salary per year. The state "picks up" the members' contributions for its employees under the provisions of Internal Revenue Code (IRC) Section 414(h).
- 8. <u>Employer Contributions</u>: The state contributes an actuarially determined percentage of the member's annual salary. Contributions determined in a given actuarial valuation go into effect two years after the actuarial valuation.

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9. Final Average Compensation (FAC)

- a. For judges who became members on or before July 2, 1997, one-twelfth of the judge's annual salary at the time of retirement.
- b. For judges who became members after July 2, 1997, one-twelfth of the average of the judge's highest three consecutive annual salaries.
- c. Benefits for death while an active member are based on the member's salary at the time of death, regardless of when the judge became a member.

10. Full Retirement

- a. Eligibility: All judges are eligible for unreduced retirement at or after age 65 if the judge has served for 20 years, or at or after age 70 after 15 years of service.
- b. Monthly Benefit: 100% of FAC at retirement.
- c. Payment Form: Benefits are paid as a monthly life annuity. There are no optional forms of payment available.
- d. Death Benefit: After the death of a retired member, if the member was married, 50% of the retiree's benefit is paid to the surviving spouse for life (or until remarriage).

11. Reduced Retirement

- a. Eligibility: A judge is eligible for a reduced retirement benefit at age 65 if the judge has served for 10 years, or at any age after 20 years of service.
- b. Reduced Retirement Benefit: 75% of FAC at retirement.
- c. Payment Form: Same as for Full Retirement.
- d. Death Benefit: Same as for Full Retirement.

12. Refunds

- a. Eligibility: All judges leaving covered employment for a reason other than death or retirement.
- b. Benefit: A lump-sum payment equal to the sum of his/her employee contributions. No interest is credited on these contributions.

13. Death Benefit of Active Members

After the death of an active member, if the member was married, a benefit will be paid to the spouse until his/her death or remarriage. The benefit is equal to 25% of the judge's salary at death if the member had less than seven years of service. If the judge had at least seven but less than 15 years of service, the benefit is equal to 1/3 of the judge's salary at death. If the judge had at least 15 years of service or if the judge was eligible for retirement, the spouse receives 50% of the judge's salary at death. Benefits are payable until the spouse's death or remarriage. Benefits may be paid to any minor children after the death of the spouse.

14. <u>Post-retirement Benefit Increase:</u> Members receive an increase equal to 3.00% of the original benefit each year, beginning in January of the year in which the member reaches the third anniversary of retirement. The increase applies to both retirement and death benefits. This increase is not tied in any way to actual increases in the cost of living. (Judges of the administrative adjudication and workers compensation courts receive a compound 3.00% increase, rather than a simple 3.00% increase.)