C

Judges' Retirement System II
Actuarial Valuation
as of
June 30, 2009

Establishing Required Contributions
for the Fiscal Year
July 1, 2010 through June 30, 2011

TABLE OF CONTENTS

ACTUARIAL CERTIFICATION 2

HIGHLIGHTS AND EXECUTIVE SUMMARY 3
- Purpose of the Report 4
- Development of the Employer Contribution Rate 4
- Funded Status of the Plan 5
- Changes Since Prior Valuation 5
- Comparison of Current and Prior Year Results 6

SUMMARY OF LIABILITES AND RATES 7
- Development of Accrued and Unfunded Liabilities 8
- Gain/Loss Analysis 9
- Schedule of Amortization Bases 10
- Reconciliation of Employer Contribution Rates 10
- Employer Contribution Rate History 11
- Funding History 11

SUMMARY OF ASSETS 12
- Reconciliation of the Market Value of Assets 13
- Development of the Actuarial Value of Assets 13
- Asset Allocation 14
- Asset Allocation Chart 15

SUMMARY OF PARTICIPANT DATA 16
- Reconciliation of Participants 17
- Distribution of Active Members 18
- Distribution of Average Annual Salaries 18
- Distribution of Retired Members and Beneficiaries 19

Appendix A – Statement of Actuarial Data, Methods and Assumptions A-1
Appendix B – Summary of Principal Plan Provisions B-1
Appendix C – Information for compliance with GASB Statement No. 27 C-1
Appendix D – Glossary of Actuarial Terms D-1

ACTUARIAL CERTIFICATION

To the best of our knowledge, this report is complete and accurate and contains sufficient information to fully and fairly disclose the actuarial funded condition of the Judges' Retirement System II as of June 30, 2009. Based on the employee data provided by the Judges' Retirement System administrative staff at CalPERS, the statement of assets provided by the CalPERS Fiscal Services Division, and the benefits as outlined in Appendix B, it is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles and that the assumptions and methods are reasonable for this plan.

[redacted]

May Shuang Yu, ASA, MAAA
Senior Pension Actuary, CalPERS

[redacted]

Alan Milligan, FSA, FCIA, MAAA, FCA
Interim Chief Actuary, CalPERS

HIGHLIGHTS AND EXECUTIVE SUMMARY

- PURPOSE OF THE REPORT
- DEVELOPMENT OF THE EMPLOYER CONTRIBUTION RATE
- FUNDED STATUS OF THE PLAN
- CHANGES SINCE PRIOR VALUATION
- COMPARISON OF CURRENT AND PRIOR YEAR RESULTS

Purpose of the Report

This actuarial valuation of the Judges' Retirement System II of the State of California was performed by CalPERS staff actuaries as of June 30, 2009 in order to:

- set forth the actuarial assets and funding liabilities of this plan as of June 30, 2009;
- establish the actuarially determined recommended contribution rate for this plan for the fiscal year July 1, 2010 through June 30, 2011;
- provide actuarial information as of June 30, 2009, to the CalPERS Board of Administration and other interested parties, and
- provide pension information as of June 30, 2009 under Governmental Accounting Standards Board (GASB) Statement Number 27.

The use of this report for other purposes may be inappropriate.

Development of Employer Contribution Rate

This is the fifteenth annual actuarial valuation of the Judges' Retirement System II. This system began on November 9, 1994 to provide retirement and ancillary benefits to judges elected or appointed on or after that date. The employer contribution rate from the inception of the plan until June 30, 1996 was set by State statute. Subsequently, the employer contribution rate was determined through an actuarial valuation process. This actuarial valuation sets forth the employer contribution rate for the plan for the fiscal year July 1, 2010 through June 30, 2011.

The following table illustrates total recommended employer contribution over the course of 2010-2011. The amount of money is illustrated in dollars and then is shown as a percentage of the projected payroll that is expected over the course of the year.

	Fiscal Year 2009/2010	**Fiscal Year 2010/2011**
Employer Contribution (in Dollars)		
Payment for Normal Cost	$ 43,374,758	$ 45,864,751
Payment on Amortization Bases	1,383,875	5,084,373
Total Employer Contribution	$ 44,758,633	$ 50,949,124
Projected Annual Payroll for Contribution Year	$ 219,852,796	$ 211,924,734
Employer Contribution (Percentage of Projected Payroll)		
Payment for Normal Cost	19.729%	21.642%
Payment on Amortization Bases	0.629%	2.399%
Total Employer Contribution	20.358%	24.041%
Employee Contribution (Percentage)	8.000%	8.000%

Funded Status of the Plan

The tables below summarize the funded status of the Judges' Retirement System II as of June 30.

		June 30, 2008		June 30, 2009
Present Value of Projected Benefits	$	813,607,416	$	972,235,626
Entry Age Normal Accrued Liability		366,513,989		450,547,115
Actuarial Value of Assets (AVA)*		334,903,486		378,691,893
Unfunded Liability	$	31,610,503	$	71,855,222
Market Value of Assets (MVA)	$	325,451,000	$	315,576,578
Funded Status (on an MVA basis)		88.8%		70.0%

*The Actuarial Value of Assets is used to establish funding requirements, while the funded ratio based on the Market Value of Assets is a better indicator of the solvency of the plan.

Changes Since Prior Valuation

Actuarial Assumptions

The mortality assumption was changed from the 1994 GAM Static Table to the mortality table developed from the 1997-2007 experience study including five years of projected on-going mortality improvement using the scale AA published by the Society of Actuaries.

Actuarial Methods

The funding method for this valuation is "Individual Entry Age Normal". The "Aggregate Entry Age Normal" funding method was used in prior valuations because it was viewed as more suitable to determine contribution rates for new plans. It produces stable normal costs in a population which grows at an uneven rate. Since the Judges' Retirement System II has been established for 16 years, with active membership growing to 1,109 as of June 30, 2009, the funding method was changed to the "Individual Entry Age Normal" method which is much more commonly used.

In addition, we changed the overall payroll growth to 3.25% compounded annually. This rate is used in projecting the payroll over which the unfunded liability is amortized. This amortization method is in accordance with the requirements of GASB Statement No. 27.

Plan provisions

No changes were made since the prior valuation.

Comparison of Current and Prior Year Results

The table below is a comparison of key valuation results for the current valuation date to the corresponding values from the prior valuation date.

Results	**June 30, 2008**	**June 30, 2009**
Members Included in the Valuation		
Active Members	978	1,109
Vested Terminated Members	4	2
Receiving Benefits	15	16
Total	997	1,127
Annual Covered Payroll	$ 175,346,032	$ 198,793,201
Projected Annual Payroll for Contribution Year	$ 219,852,796	$ 211,924,734
Average Annual Pay	$ 179,290	$ 179,254
Average Attained Age for Actives	55.07	55.45
Average Entry Age for Actives	48.71	48.98
Present Value of Benefits		
Active Members	$ 802,997,350	$ 959,044,327
Vested Terminated Members	1,193,899	744,576
Receiving Benefits	9,416,167	12,446,723
Total	$ 813,607,416	$ 972,235,626
Accrued Liability		
Active Members	$ 355,903,923	$ 437,355,816
Vested Terminated Members	1,193,899	744,576
Receiving Benefits	9,416,167	12,446,723
Total	$ 366,513,989	$ 450,547,115
Actuarial Value of Assets	$ 334,903,486	$ 378,691,893
Unfunded Liability/(Excess Assets)	$ 31,610,503	$ 71,855,222
Employer Contribution Required (in Projected Dollars)		
Payment for Normal Cost	$ 43,374,758	$ 45,864,751
Payment on Amortization Bases	1,383,875	5,084,373
Total	$ 44,758,633	$ 50,949,124
Employer Contribution Required (Percent of Projected Payroll)		
Payment for Normal Cost	19.729%	21.642%
Payment on Amortization Bases	0.629%	2.399%
Total	20.358%	24.041%

SUMMARY OF LIABILITIES AND RATES

- **DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES**
- **(GAIN)/LOSS ANALYSIS**
- **SCHEDULE OF AMORTIZATION BASES**
- **RECONCILIATION OF EMPLOYER CONTRIBUTION RATES**
- **EMPLOYER CONTRIBUTION RATE HISTORY**
- **FUNDING HISTORY**

Development of Accrued & Unfunded Liabilities

1.	Present Value of Projected Benefits		
	a) Active Members	$	959,044,327
	b) Vested Terminations		744,576
	c) Non-Vested Terminations		0
	d) Pre-Retirement Death		411,248
	e) Receiving Benefits		12,035,475
	f) Total		972,235,626
2.	Present Value of Future Employee Contributions	$	145,363,253
3.	Present Value of Future Employer Normal Cost	$	376,325,258
4.	Entry Age Normal Accrued Liability		
	a) Active Members	$	437,355,816
	b) Vested Terminations		744,576
	c) Non-Vested Terminations		0
	d) Pre-Retirement Death		411,248
	e) Receiving Benefits		12,035,475
	f) Total		450,547,115
5.	Actuarial Value of Assets	$	378,691,893
6.	Unfunded Accrued Liability	$	71,855,222

(Gain) / Loss Analysis

Shown below is an analysis of the (Gain)/Loss for the fiscal year ending on the valuation date. The Gain or Loss is shown separately for assets, contributions, and liabilities.

A. Total (Gain) / Loss for the Year

1. Unfunded Accrued Liability (UAL) as of 6/30/08	$	31,610,503
2. Expected Payment on UAL during 2008/2009		948,260
3. Interest through 6/30/09 [0.0725 x A1 – $(1.0725^{½}$ - 1) x A2]		2,257,988
4. Expected UAL before all other changes[A1 - A2 + A3]	$	32,920,231
5. Change due to new assumptions		18,026,261
6. Change due to revised actuarial methods		7,342,772
7. Expected UAL after all changes [A4 + A5 + A6]		58,289,264
8. Actual Unfunded Accrued Liability as of 6/30/09		71,855,222
9. Total (Gain)/Loss for 2008/2009 [A8 – A7]	$	13,565,958

B. Contribution (Gain) / Loss for the Year

1. Expected Contribution (Employer and Employee)	$	53,748,068
2. Interest on Expected Contributions [$(1.0725^{1/2}$ – 1) x B1]		1,914,278
3. Actual Contribution		54,914,309
4. Interest on Actual Contributions [$((1.0725)^{1/2}$ – 1) x B3]		1,955,815
5. Contribution (Gain)/Loss [(B1 + B2) – (B3 + B4)]	$	(1,207,778)

C. Asset (Gain) / Loss for the Year

1. Actuarial Value of Assets as of 6/30/08	$	334,903,486
2. Contributions Received		54,914,309
3. Benefits, Refunds Paid and Administrative Costs		(4,861,312)
4. Expected Interest [0.0725 x C1 + $((1.0725)^{½}$ - 1) x (C2 + C3)]		26,063,178
5. Expected Assets at 6/30/09 [C1 + C2 + C3 + C4]	$	411,019,661
6. Actual Actuarial Value of Assets as of 6/30/09		378,691,893
7. Asset (Gain)/Loss [C5 - C6]	$	32,327,768

D. Liability (Gain) / Loss for the Year

1. Total (Gain)/Loss (A9)	$	13,565,958
2. Contribution (Gain)/Loss (B5)		(1,207,778)
3. Asset (Gain)/Loss (C7)		32,327,768
4. Liability (Gain)/Loss [D1 - D2 - D3]	$	(17,554,032)

Schedule of Amortization Bases

The schedule below shows the development of the proposed payment on the Amortization Bases. The rate smoothing method requires that gains and losses be combined into a single base and amortized over 30 years. Please refer to Appendix A for an explanation of how amortization periods are determined.

Reason For Base	Date Established	Remaining Period	Balance on 6/30/09	Expected Payment on UAL 09-10	Amount Remaining on 6/30/10	Scheduled Payment Fiscal Year 2010-2011
Fresh Start	6/30/07	28	29,881,244	1,258,347	30,744,470	1,812,907
(Gain)/Loss	6/30/08	30	3,038,988	125,528	3,129,316	177,676
Assumption Change	6/30/09	20	18,026,261	(2,513,274)	21,935,951	1,591,339
Method Change	6/30/09	20	7,342,772	(1,010,740)	8,921,861	647,235
(Gain)/Loss	6/30/09	30	13,565,957	(495,322)	15,062,452	855,215
Total			71,855,222	(2,635,461)	79,794,050	5,084,373

Reconciliation of Employer Contribution Rates

This table illustrates how the contribution rate is calculated and more importantly why the Employer Contribution Rate differs this year from the previous year.

	Percentage of Projected Payroll	Estimated $ Based on Projected Payroll
1. 2009-2010 Employer Rate (from prior year annual report)	20.358%	$ 44,758,633
2. Effect of changes since the prior annual valuation		
a) Effect of change in payroll	-	(1,613,995)
b) Effect of change in actuarial assumptions	1.684%	3,568,813
c) Effect of new actuarial methods	1.504%	3,187,348
d) Effect of unexpected changes in demographics	0.495%	1,048,325
e) Net effect of the changes above [Sum of a through d]	3.683%	6,190,491
3. 2010-2011 Estimated Employer Contribution	24.041%	$ 50,949,124

Employer Contribution Rate History

This table provides the employer contribution rates for the Judges' Retirement System II from its inception to the rate established by this valuation.

Fiscal Year	Contribution Rate	Fiscal Year	Contribution Rate
1995-96	18.800%	2003-04	19.217%
1996-97	19.170%	2004-05	20.252%
1997-98	21.920%	2005-06	19.848%
1998-99	21.540%	2006-07	19.917%
1999-00	18.567%	2007-08	19.916%
2000-01	18.130%	2008-09	20.227%
2001-02	18.508%	2009-10	20.358%
2002-03	19.231%	2010-11	24.041%

Funding History

Shown below is the history of funding progress for the plan.

Valuation Date	Entry Age Normal Accrued Liability	Actuarial Value Of Assets (AVA)	Funded Ratio (AVA)	Market Value of Assets (MVA)	Funded Ratio (MVA)	Projected Annual Covered Payroll
6/30/95	$ 70,657	$ 239,474	338.9%	$ 239,474	338.9%	$ 3,944,181
6/30/96	2,812,567	2,387,870	84.9%	2,387,870	84.9%	11,762,307
6/30/97	7,906,056	7,242,314	91.6%	7,242,314	91.6%	21,220,469
6/30/98	15,043,465	15,120,408	100.5%	16,256,101	108.1%	32,960,219
6/30/99	26,921,274	27,154,854	100.9%	28,372,726	105.4%	41,448,759
6/30/00	41,619,162	40,503,417	97.3%	41,354,371	99.4%	48,450,504
6/30/01	60,933,072	55,954,506	91.8%	51,981,931	85.3%	69,937,653
6/30/02	76,459,252	71,928,890	94.1%	65,389,900	85.5%	80,237,849
6/30/03	105,116,289	96,107,358	91.4%	90,713,575	86.3%	95,612,128
6/30/04	137,703,630	129,152,543	93.8%	129,315,504	93.9%	108,842,477
6/30/05	177,760,708	167,556,473	94.3%	171,875,047	96.7%	122,280,588
6/30/06	220,134,685	212,903,528	96.7%	218,986,736	99.5%	136,602,126
6/30/07	294,982,560	267,604,460	90.7%	290,733,043	98.6%	174,473,271
6/30/08	366,513,989	334,903,486	91.4%	325,451,000	88.8%	190,413,674
6/30/09*	450,547,115	378,691,893	84.1%	315,576,578	70.0%	211,942,734

*New funding method used since 6/30/09 valuation. Please refer to Appendix A for an explanation of funding method.

SUMMARY OF ASSETS

- **RECONCILIATION OF THE MARKET VALUE OF ASSETS**
- **DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS**
- **ASSET ALLOCATION**
- **ASSET ALLOCATION CHART**

Reconciliation of the Market Value of Assets

The following displays the change in the Market Value of Assets from the prior valuation to the current valuation by type of transaction.

1.	Beginning Balance as of 6/30/2008	$ 325,451,000
2.	Member Contributions	15,400,156
3.	Employer Contributions	39,514,153
4.	Benefit Payments	(1,251,926)
5.	Refunds	(3,062,083)
6.	Administration Costs	(547,303)
7.	Investment Earnings	(59,927,419)
8.	Ending Balance as of 6/30/2009	$ 315,576,578

Development of the Actuarial Value of Assets

The development of the Actuarial Value of Assets for the current valuation date is shown below. This is the amount of asset used in the determination of the contribution rate.

1.	Actuarial Value of Assets as of 6/30/2008	$ 334,903,486
2.	Member Contributions	15,400,156
3.	Employer Contributions	39,514,153
4.	Benefit Payments	(1,251,926)
5.	Refunds	(3,062,083)
6.	Administration Costs	(547,303)
7.	Expected Investment Return	26,063,178
8.	Expected Actuarial Value of Assets	411,019,661
9.	Market Value of Assets as of 6/30/2009	315,576,578
10.	One-Fifteenth of the Difference Between Market Value of Assets and Expected Actuarial Value of Assets [(9) – (8)] x 1/15	(6,362,872)
11.	Preliminary Actuarial Value of Assets [(8) + (10)]	404,656,789
12.	Preliminary Actuarial Value to Market Value Ratio [(11) / (9)]	128.23%
13.	Final Actuarial Value to Market Value Ratio (Minimum 80%, Maximum 120%)	120.00%
14.	Final Actuarial Value of Assets as of 6/30/2009	$ 378,691,893

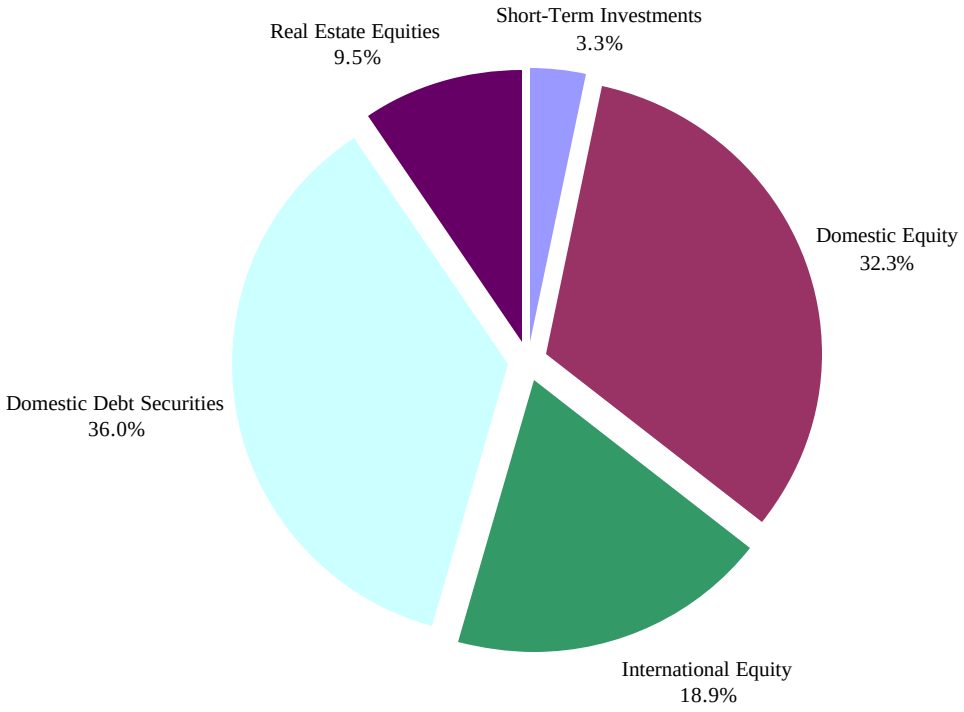
Asset Allocation

Shown below is the Market Value of Assets, by asset type, as of the valuation date.

Cash	$	1,768
Investments at Market Value		
Surplus Money Investment Fund		2,099,000
Short-term Investment Fund		8,055,427
Domestic Equity		100,228,157
Domestic Debt Securities		111,630,562
International Equity		58,554,618
Real Estate Equities		29,593,067
Subtotal of Investments	$	310,160,831
Accounts Receivable		
Due from Other Funds		541,252
Interest Accrued on Investments		20,230
Member and Employer Contributions		5,023,263
Subtotal of Accounts Receivable	$	5,584,745
Accounts Payable		(170,766)
Fund Balance at Market Value on 6/30/2009	$	315,576,578

Asset Allocation Chart

This is the graphical representation of how the money contained in the Judges' Retirement II Fund is allocated for investment. Receivables and Payables are not included.



SUMMARY OF PARTICIPANT DATA

- **RECONCILIATION OF PARTICIPANTS**
- **DISTRIBUTION OF ACTIVE MEMBERS**
- **DISTRIBUTION OF AVERAGE ANNUALSALARIES**
- **DISTRIBUTION OF RETIRED MEMBERS AND BENEFICIARIES**

Reconciliation of Participants

The below table illustrates a reconciliation of the participant data over the course of the valuation year. It identifies numerically who entered the plan, who left the plan and who remained in the plan in the same status as on the previous valuation date or who moved to a new status over the course of the year.

	Actives	Inactive	Retirees and Beneficiaries	Total
As of June 30, 2008	978	4	15	997
1. New Entrants	142	0	0	142
2. Non-Vested Terminations				
• Refund Paid	0	0	0	0
• Refund Pending	0	0	0	0
3. Vested Terminations				
• Monetary Credit Paid	(7)	(3)	0	(10)
• Monetary Credit Pending	(1)	1	0	0
4. Disabilities	(1)	0	1	0
5. Retirements	(1)	0	1	0
6. Death with Beneficiary	(1)	0	1	0
7. Benefits Ceasing (Beneficiaries)	0	0	(2)	(2)
As of June 30, 2009	**1,109**	**2**	**16**	**1,127**

Distribution of Active Members

The following table displays the number of active participants by age and years of service.

	Years of Service at Valuation Date					
Attained Age	**0-4**	**5-9**	**10-14**	**15-19**	**20+**	**Total**
15-34	0	0	0	0	0	0
35-39	4	0	0	0	0	4
40-44	72	5	0	0	0	77
45-49	101	47	17	0	0	165
50-54	102	85	57	0	0	244
55-59	112	105	78	0	0	295
60-64	59	74	58	0	1	192
65+	14	43	74	1	0	132
All Ages	464	359	284	1	1	1109

Distribution of Average Annual Salaries

The following table displays the average salaries of active participants by age and service.

	Years of Service at Valuation Date					
Attained Age	**0-4**	**5-9**	**10-14**	**15-19**	**20+**	**Average**
15-34	$ -	$ -	$ -	$ -	$ -	$ -
35-39	$ 178,789	$ -	$ -	$ -	$ -	$ 178,789
40-44	$ 178,789	$ 178,789	$ -	$ -	$ -	$ 178,789
45-49	$ 178,789	$ 178,789	$ 180,307	$ -	$ -	$ 178,945
50-54	$ 179,042	$ 179,093	$ 178,789	$ -	$ -	$ 179,001
55-59	$ 178,789	$ 179,281	$ 180,113	$ -	$ -	$ 179,314
60-64	$ 178,789	$ 179,835	$ 179,679	$ -	$ 178,789	$ 179,461
65+	$ 178,789	$ 179,389	$ 180,533	$ 178,789	$ -	$ 179,962
Average	$ 178,845	$ 179,292	$ 179,880	$ 178,789	$ 178,789	$ 179,255

Distribution of Retired Members and Beneficiaries

The following table displays the number of recipients by age and retirement type.

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Total
50-54	1	0	0	1
55-59	0	0	0	0
60-64	0	2	0	2
65-69	1	1	0	2
70-74	3	3	0	6
75-79	3	0	0	3
80-84	1	0	0	1
85 and Over	0	0	0	0
All Ages	9	6	0	15

APPENDICES

- **APPENDIX A - STATEMENT OF ACTUARIAL DATA, METHODS AND ASSUMPTIONS**
- **APPENDIX B - SUMMARY OF PRINCIPAL PLAN PROVISIONS**
- **APPENDIX C – INFORMATION FOR COMPLIANCE WITH GASB STATEMENT No. 27**
- **APPENDIX D – GLOSSARY OF ACTUARIAL TERMS**

Appendix A – Actuarial Methods and Assumptions

Actuarial Data

As stated in the Actuarial Certification, the data which serves as the basis of this valuation has been obtained from the various CalPERS databases. We have reviewed the valuation data and believe that it is reasonable and appropriate in aggregate.

Actuarial Methods

Funding Method

The actuarial funding method used for the Retirement Program is the Entry Age Normal Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces level annual cost as a percent of pay in each year from the age of hire (entry age) to the assumed retirement age. The cost allocated to the current fiscal year is called the normal cost.

The actuarial accrued liability for active members is then calculated as the portion of the total cost of the plan allocated to prior years. The actuarial accrued liability for members currently receiving benefits, for active members beyond the assumed retirement age, and for members entitled to deferred benefits, is equal to the present value of the benefits expected to be paid. No normal costs are applicable for these participants.

The excess of the total actuarial accrued liability over the actuarial value of plan assets is called the unfunded actuarial accrued liability. Funding requirements are determined by adding the normal cost and an amortization of the unfunded liability as a level percentage of assumed future payrolls. All changes in liability due to plan amendments, changes in actuarial assumptions, or changes in actuarial methodology are amortized separately over a 20-year period. In addition, all gains or losses are tracked and amortized over a rolling 30 year period. Finally, if a plan's accrued liability exceeds the actuarial value of assets, the annual contribution with respect to the total unfunded liability may not be less than the amount produced by a 30-year amortization of the unfunded liability.

An exception to the funding rules above is used whenever the application of such rules results in inconsistencies. In these cases a "fresh start" approach is used. This simply means that the current unfunded actuarial liability is projected and amortized over a set number of years. As mentioned above, if the annual contribution on the total unfunded liability was less than the amount produced by a 30-year amortization of the unfunded liability, the plan actuary would implement a 30-year fresh start. However, in the case of a 30-year fresh start, just the unfunded liability not already in the (gain)/loss base (which already is amortized over 30 years) will go into the new fresh start base. In addition, a fresh start is needed in the following situations:

- when a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability); or

- when there are excess assets, rather than an unfunded liability. In this situation a 30-year fresh start is used, unless a longer fresh start is needed to avoid a negative total rate.

It should be noted that the actuary may choose to use a fresh start under other circumstances. In all cases, the fresh start period is set by the actuary at what he deems appropriate, and will not be less than five years nor greater than 30 years.

Asset Valuation Method

In order to dampen the effect of short term market value fluctuations on employer contribution rates, the following asset smoothing technique is used. First an Expected Value of Assets is computed by bringing forward the prior year's Actuarial Value of Assets and the contributions received and benefits paid during the year at the assumed actuarial rate of return. The Actuarial Value of Assets is then computed as the Expected Value of Assets plus one-fifteenth of the difference between the actual Market Value of Assets and the Expected Value of Assets as of the valuation date. However in no case will the Actuarial Value of Assets be less than 80% or greater than 120% of the actual Market Value of Assets.

Actuarial Assumptions

The actuarial assumptions used in the valuation are shown below. These assumptions are based upon recommendations from both CalPERS actuarial staff and outside consulting actuaries.

Economic Assumptions

The following table identifies the economic assumptions used in the valuation.

June 30, 2009	
Gross Investment Return:	7.75%
Less Administrative Expense:	0.50%
Net Investment Return, compounded annually:	7.25%
Individual Salary Increases, compounded annually:	3.25%
Overall Payroll Growth, compounded annually *	3.25%
Inflation:	3.00%

*The Overall Payroll Growth assumption is used in projecting the payroll over which the unfunded liability is amortized.

Demographic Assumptions

Service Retirement

The table below illustrates the assumptions used in the valuation to determine the probability of a judge retiring out of the system.

Service Greater than 20 Years	
Age	**Rate**
Below 65	0.000
65	0.750
66	0.400
67	0.300
68	0.350
69	0.500
70*	1.000

* For Judges age 70 and older with 5 or more years of service the probability of retirement is 100%.

Withdrawal

Rates vary by age and years of service as shown in the table below.

Entry Age	Years of Service					
	0-1	1-2	2-3	3-4	4-5	5 or more
35	0.00525	0.00525	0.00525	0.00525	0.00525	0.00225
40	0.00450	0.00450	0.00450	0.00450	0.00450	0.00375
45	0.00375	0.00375	0.00375	0.00375	0.00375	0.00750
50	0.00375	0.00375	0.00375	0.00375	0.00375	0.00900
55	0.00000	0.00000	0.00000	0.00000	0.00000	0.00825
60	0.00000	0.00000	0.00000	0.00000	0.00000	0.00750

Pre-Retirement Non-Industrial Mortality and Disability

Attained Age	Pre-Retirement Mortality		Non-Industrial Disability	
	Male	Female	Male	Female
35	0.00067	0.00046	0.00000	0.00000
40	0.00087	0.00065	0.00100	0.00100
45	0.00120	0.00093	0.00190	0.00190
50	0.00176	0.00126	0.00320	0.00320
55	0.00260	0.00176	0.00540	0.00540
60	0.00395	0.00266	0.00850	0.00850
65	0.00608	0.00419	0.01220	0.01220
70	0.00914	0.00649	0.00000	0.00000

Post Retirement Mortality

Attained Age	Standard		Non-Industrial Disability	
	Male	Female	Male	Female
35	0.00075	0.00043	0.00984	0.00548
40	0.00093	0.00062	0.01666	0.00674
45	0.00133	0.00085	0.01646	0.00985
50	0.00239	0.00125	0.01632	0.01245
55	0.00474	0.00243	0.01936	0.01580
60	0.00720	0.00431	0.02293	0.01628
65	0.01069	0.00775	0.03174	0.01969
70	0.01675	0.01244	0.03870	0.03019
75	0.03080	0.02071	0.06001	0.03915
80	0.05270	0.03749	0.08388	0.05555
85	0.09775	0.07005	0.14035	0.09577
90	0.16747	0.12404	0.21554	0.14949
95	0.25659	0.21556	0.31025	0.23055
100	0.34551	0.31876	0.45905	0.37662
105	0.58527	0.56093	0.67923	0.61523
110	1.00000	1.00000	1.00000	1.00000

Industrial Mortality

Rates are zero

Industrial Disability

Rates are zero

Marital Status

Probability of being married at service retirement or disability retirement is 90%.

Age of Spouse

Assumes that female spouses are three years younger than male spouses.

Monetary Credit Plan Assumptions

The actuarial assumptions used to convert the balance in the Monetary Credit Plan to an annuity value are those used in the valuation of this plan and are stated above.

Internal Revenue Code Section 415

The limitations on benefits imposed by Internal Revenue Code Section 415 were not taken into account in this valuation. The effect of these limitations has been deemed immaterial on the overall results of this valuation.

Previous Assumptions and Methods

Previous Post Retirement Mortality

1994 Group Annuity Mortality Table published and recorded in the Transactions of the Society of Actuaries.

Previous Pre-Retirement Mortality

See Appendix A of prior year report for details.

Previous Actuarial Funding Method

"Aggregate Entry Age Normal" funding method was used for all the prior annual valuations. The required contribution was determined as a level percentage of payroll that, if paid from the average date of entry into the Judges' Retirement System II, provides for all benefits expected to be paid.

Previous Overall Payroll Growth

The segregated bases of the unfunded liability were amortized as a level percentage of payroll. In order to amortize a base over a level percentage of payroll in a plan that was growing at an uneven rate, the bases must be amortized by an increasing annuity. An increasing annuity table was derived each year using the following methodology. The average pay was projected to increase by 3.25% each year. The number of actives was projected to increase each year by the projected decrease in the Judges' Retirement System I (JRS I). The decrease in the number of actives in JRS I was computed by projecting the active population of JRS I (a closed group) for each year. The projected payroll is the product of the number of actives and average pay.

Appendix B – Summary of Principal Plan Provisions

Background

Judges' Retirement System II (JRS II) was established in 1994 to create a fully funded, actuarially-sound retirement system for judges appointed or elected on or after November 9, 1994. This system provides a unique combination of two basic types of retirement allowances: a defined benefit plan and a monetary credit plan. The defined benefit plan provides a lifetime monthly retirement allowance of up to 75 percent of final compensation. The monetary credit plan allows for a refund of member contributions, employer contributions (see below) and interest at retirement.

Membership

The JRS II provides retirement, death, withdrawal and disability benefits for Supreme and Appellate Court Justices, Superior Court Judges, and Municipal Court Judges who are appointed or elected on or after November 9, 1994, and their beneficiaries.

Member Contributions

Members of the system contribute 8% of their annual compensation to the plan.

Monetary Credit Account

Members accrue monthly monetary credits equal to 18% of monthly salary. These monetary credits are accumulated in a Monetary Credit Account for each member and also credited with earnings monthly at a rate, not less than zero, equal to the annual net earnings rate achieved by the Fund. The Monetary Credit Account provides an optional benefit at eligible retirement ages (described below) if the member chooses this option. If a member withdraws from the system before he or she has vested (accumulated at least 5 years of service), the member is paid the amount of his or her 8% of salary contributions to the system, but not the full Monetary Credit Account. After 5 years of service however, the Monetary Credit Account becomes the property of the member upon withdrawal.

Service Retirement

Eligibility - Judges must be at least age 65 with 20 years or more of service or age 70 with a minimum of 5 years of service. Two types of service retirement are available: Defined Benefit Plan or Monetary Credit Plan. Election of a plan must be made within 30 days after retirement.

Defined Benefit Plan - This option provides a "defined benefit" of 3.75% of the highest 12-month average salary per year of service, up to 75% of final average pay for judges reaching age 65 with at least 20 years of service. The normal form of payment is a joint and 50% contingent annuity with the spouse as contingent annuitant. This provides a surviving spouse with a monthly allowance equal to 50% of the judge's allowance. Optional settlements are available which reduce a judge's normal retirement benefit.

Monetary Credit Plan - This option provides a cash payment in a single lump sum or the member may elect to receive an annuity at retirement based on the value of his or her Monetary Credit Account.

Non-Industrial Disability Retirement (Non-Work Related)

Eligibility - Judges who have five years of service and become permanently disabled because of a mental or physical disability may apply to the Commission On Judicial Performance for disability retirement.

Benefit - An allowance, based upon the judge's age, equal to the lesser of the following:

- 3.75% of final compensation multiplied by the number of years of service the judge would have been credited had he or she continued to work until the age he or she would have first been eligible to retire, or

- 65% of the judge's average monthly salary during the 12 months preceding the retirement date.

The normal form of payment is a joint and 50% contingent annuity with the spouse as the contingent annuitant.

Industrial Disability Retirement (Work Related)

Benefit - Judges receive 65% of the judge's average monthly salary during the 12 months preceding the retirement date regardless of age or length of service.

The normal form of payment is a joint and 50% contingent annuity with the spouse as the contingent annuitant.

Non-Industrial Pre-Retirement Death Benefit

If Eligible for Service Retirement - Spouses receive either the monthly retirement allowance equal to one-half of the judge's "defined benefit" plan allowance or the judge's monetary credits.

If Not Eligible for Service Retirement - Spouses receive the judge's monetary credits or three times the annual salary at the time of death paid in 36 monthly installments, whichever is greater.

Industrial Pre-Retirement Death Benefit

If a judge dies in office, is age 65 or older with a minimum of 20 years of service and elects to have this provision apply (one time irrevocable election while judge is in office) then a payment to the surviving spouse is payable upon death. The spouse would receive a monthly allowance equal to the allowance paid to the judge had he or she retired immediately preceding death.

Post Retirement Death Benefit

If the Judge elected the Defined Benefit Plan - The surviving spouse of a retired judge who elected an Optional Settlement in the defined benefit plan receives one of four options:

- Option 1 - return of unused accumulated contributions;
- Option 2 - 4 - the Optional Settlement Benefit, the amount varies based on the option chosen by the member.

If the Judge elected the Monetary Credit Plan - If the full amount of monetary credits was received in a lump sum, there are no survivor benefits. If the judge elected the Monetary Credit Plan with benefits paid as an annuity, the spouse receives the amount based on the option chosen at retirement.

Cost-Of-Living Adjustments (COLA)

If the Judge elected the Defined Benefit Plan - The retirement allowance of retired judges who have elected the defined benefit plan will be adjusted every January after the judge has been retired six months. The adjustment is based on the United States city average of the "Consumer Price Index For All Urban Consumers," as published by the United States Bureau Of Statistics. No adjustment shall be made unless the cost-of-living increase equals or exceeds one percent (1%). Further, the allowance shall not be increased more than three percent (3%) in a single year. Increases shall be compounded.

Appendix C – Information for compliance with GASB Statement No. 27

Under GASB 27, an employer reports an annual pension cost (APC) equal to the annual required contribution (ARC) plus an adjustment for the cumulative difference between the APC and the employer's actual plan contributions for the year. The cumulative difference is called the net pension obligation (NPO). The ARC for the period July 1, 2010 to June 30, 2011 has been determined by an actuarial valuation of the plan as of June 30, 2009. The contribution rate for the indicated period is 24.041% of payroll. In order to calculate the dollar value of the ARC for inclusion in financial statements prepared as of June 30, 2011, this contribution rate, as modified by any amendments for the year, would be multiplied by the payroll of covered employees that was actually paid during the period July 1, 2010 to June 30, 2011. The employer and the employer's auditor are responsible for determining the NPO and the APC.

A summary of principal assumptions and methods used to determine the ARC is shown below.

	Retirement Program
Valuation Date	June 30, 2009
Actuarial Cost Method	Entry Age Normal Cost Method
Amortization Method	Level Percent of Payroll
Average Remaining Period	26 Years as of the Valuation Date
Asset Valuation Method	15 Year Smoothed Market
Actuarial Assumptions	
Investment Rate of Return	7.25% (net of administrative expenses)
Projected Salary Increases	3.25%
Inflation	3.00%
Payroll Growth	3.25%
Individual Salary Growth	3.25%.

Initial unfunded liabilities are amortized over a closed period that depends on the plan's date of entry into CalPERS. Subsequent plan amendments are amortized as a level percentage of pay over a closed 20-year period. Gains and losses that occur in the operation of the plan are amortized over a 30 year rolling period, which results in an amortization of about 6% of unamortized gains and losses each year. If the plan's accrued liability exceeds the actuarial value of plan assets, then the amortization payment on the total unfunded liability may not be lower than the payment calculated over a 30 year amortization period. More complete information on assumptions and methods is provided in Appendix A of this report. Appendix B contains a description of benefits included in the valuation.

Schedule of Funding Progress

The Schedule of Funding Progress below shows the recent history of the actuarial value of assets, actuarial accrued liability, their relationship, and the relationship of the unfunded actuarial accrued liability to payroll.

Valuation Date	Accrued Liability (a)	Actuarial Value of Assets (AVA) (b)	Unfunded Liability (UL) (a)-(b)	Funded Ratios		Annual Covered Payroll (c)	UL As a % of Payroll [(a)-(b)]/(c)
				(AVA) (b)/(a)	Market Value		
06/30/09	$ 450,547,115	$ 378,691,893	$ 71,855,222	84.1%	70.0%	$ 198,793,201	36.1%
06/30/08	366,513,989	334,903,486	31,610,503	91.4%	88.8%	175,346,032	18.0%
06/30/07	294,982,560	267,604,460	27,378,100	90.7%	98.6%	156,251,856	17.5%

Appendix D – Glossary of Actuarial Terms

Accrued Liability *(also called Actuarial Accrued Liability or Entry Age Normal Accrued Liability)*

The total dollars needed as of the valuation date to fund all benefits earned in the past for *current* members.

Actuarial Assumptions

Assumptions made about certain events that will affect pension costs. Assumptions generally can be broken down into two categories: demographic and economic. Demographic assumptions include such things as mortality, disability and retirement rates. Economic assumptions include investment return, salary growth and inflation.

Actuarial Methods

Procedures employed by actuaries to achieve certain goals of a pension plan. These may include things such as funding method, setting the length of time to fund the past service liability and determining the actuarial value of assets.

Actuarial Valuation

The determination, as of a valuation date, of the normal cost, actuarial accrued liability, actuarial value of assets and related actuarial present values for a pension plan. These valuations are performed annually or when an employer is contemplating a change to their plan provisions.

Actuarial Value of Assets

The actuarial value of assets used for funding purposes is obtained through an asset smoothing technique where investment gains and losses are partially recognized in the year they are incurred, with the remainder recognized in subsequent years.

This method helps to dampen large fluctuations in the employer contribution rate.

Amortization Bases

Separate payment schedules for different portions of the unfunded liability. The total unfunded liability of a risk pool or non-pooled plan can be segregated by "cause", creating "bases" and each such base will be separately amortized and paid for over a specific period of time. This can be likened to a home mortgage that has 24 years of remaining payments and a second on that mortgage that has 10 years left. Each base or each mortgage note has its own terms (payment period, principal, etc.)

Generally in an actuarial valuation, the separate bases consist of changes in unfunded liability due to amendments, actuarial assumption changes, actuarial methodology changes, and gains and losses. Payment periods are determined by Board policy and vary based on the cause of the change.

Amortization Period

The number of years required to pay off an amortization base.

Annual Required Contributions (ARC)

The employer's periodic required annual contributions to a defined benefit pension plan as set forth in GASB Statement No. 27, calculated in accordance with the plan assumptions. The ARC is determined by multiplying the employer contribution rate by the payroll reported to CalPERS for the applicable fiscal year. However, if this contribution is fully prepaid in a lump sum, then the dollar value of the ARC is equal to the Lump Sum Prepayment.

Entry Age

The earliest age at which a plan member begins to accrue benefits under a defined benefit pension plan or risk pool. In most cases, this is age of the member on their date of hire.

Entry Age Normal Cost Method

An actuarial cost method designed to fund a member's total plan benefit over the course of his or her career. This method is designed to yield a rate expressed as a level percentage of payroll. (The assumed retirement age less the entry age is the amount of time required to fund a member's total benefit. Generally, the older a member on the date of hire, the greater the entry age normal cost. This is mainly because there is less time to earn investment income to fund the future benefits.)

Fresh Start

A fresh start is the single amortization base created when multiple amortization bases are collapsed into one base and amortized over a new funding period.

Funded Status

A measure of how well funded a plan is. Or equivalently, how "on track" a plan is with respect to assets vs. accrued liabilities. We calculate a funded ratio by dividing the market value of assets by the accrued liabilities. A ratio greater than 100% means the plan or risk pool has more assets than liabilities and a ratio less than 100% means liabilities are greater than assets.

GASB 27

Statement No. 27 of the Governmental Accounting Standards Board. The accounting standard governing a state of local governmental employer's accounting for pensions.

Normal Cost

The annual cost of service accrual for the upcoming fiscal year for active employees. The normal cost should be viewed as the long term contribution rate.

Pension Actuary

A person who is responsible for the calculations necessary to properly fund a pension plan.

Prepayment Contribution

A payment made by the employer to reduce or eliminate the year's required employer contribution.

Present Value of Benefits

The total dollars needed as of the valuation date to fund all benefits earned in the past or expected to be earned in the future for *current* members.

Rolling Amortization Period

An amortization period that remains the same each year, rather than declining.

Superfunded

A condition existing when the actuarial value of assets exceeds the present value of benefits. When this condition exists on a given valuation date for a given plan, employee contributions for the rate year covered by that valuation may be waived.

Unfunded Liability or Unfunded Accrued Liability (UAL)

A plan with an actuarial value of assets below the accrued liability is said to have an unfunded liability and must temporarily increase contributions to get back on schedule.