

THE PRISON OFFICERS' PENSION FUND
OF NEW JERSEY
ANNUAL REPORT
OF THE ACTUARY
PREPARED AS OF JULY 1, 2004

DOC:V00712GL.DOC



June 3, 2005

Board of Trustees Prison Officers' Pension Fund of New Jersey Trenton, New Jersey

Members of the Board:

The law governing the operation of the Prison Officers' Pension Fund of New Jersey provides for annual actuarial valuations of the Fund. The results of the July 1, 2004 valuation are submitted in this report which also includes a comparison with the preceding year's valuation.

The valuation shows the financial condition of the Fund as of July 1, 2004 and gives the basis for determining the required annual contribution for the plan year beginning July 1, 2004.

The valuation was prepared on the basis of the same assumptions as were employed for the previous valuation which include an interest rate of 5% per year.

The Table of Contents, which follows, highlights the Sections of the Report.

Respectfully submitted,

(Signed) GEORGE M. LOVAGLIO

George M. Lovaglio Principal, Consulting Actuary

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REPORT ON THE ANNUAL VALUATION OF THE PRISON OFFICERS' PENSION FUND OF NEW JERSEY PREPARED AS OF JULY 1, 2004

<u>SECTION I - SUMMARY OF KEY RESULTS</u>

The Prison Officer's Pension Fund of New Jersey was established under Chapter 220 of the Laws of 1941 and permitted prison officer members of the then State Employees' Retirement System to transfer to the new Fund. Effective January 1, 1960, the Fund was closed to new employees. This report, prepared as of July 1, 2004 presents the results of the annual actuarial valuation of the Fund.

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized on the following pages.

Valuation Date	July 1, 2004		July 1, 2003
Participant Data			
Active Members Retired Members and Beneficiaries Total Participants	0 <u>205</u> 205		0 <u>214</u> 214
Annual Compensation Annual Retirement Allowances	\$ 0 1,491,969	\$ \$	0 1,527,933
Assets Market Value of Assets Actuarial Value of Assets	\$ 15,884,428 15,884,428	\$ \$	17,277,953 17,277,953
Contribution Amounts Normal Contribution Accrued Liability Contribution	\$ 0 0	\$	0 0
Total Contribution	\$ 0	\$	0

The major benefit and contribution provisions of the statute as reflected in the valuation are summarized in Appendix A. There were no changes from the provisions used in the previous valuation.

The actuarial assumptions and methods used for valuing the Fund are summarized in Appendix B. There were no changes in actuarial assumptions and methods since the previous valuation.

The combination of the plan provisions, actuarial assumptions and member and beneficiary data is used to generate the overall required level of employer contributions. The required contribution is developed in Section III F.

The valuation also generates a balance sheet which summarizes in some detail the total present and prospective assets and liabilities of the Fund. A summary comparison of the balance sheets as of July 1, 2003 and July 1, 2004 is set forth in the following table.

TABLE I COMPARATIVE BALANCE SHEET

	2004	2003
<u>ASSETS</u>		
Market value of assets of Fund	\$ 15,884,428	\$ 17,277,953
Unfunded accrued liability/(surplus)	(5,823,718)	(6,550,306)
Total Assets	\$ 10,060,710	\$ 10,727,647
<u>LIABILITIES</u>		
Present value of benefits to present beneficiaries payable from the Retirement Reserve Fund	\$ 10,060,710	\$ 10,727,647
Present value of benefits to present active members	0	0
Total Liabilities	\$ 10,060,710	\$ 10,727,647

Section V of the report provides information regarding the level of funding for the Fund. Please refer to that Section for a discussion of this topic.

SECTION II - EMPLOYEE DATA

The data employed for the valuation was furnished to the actuary by the Division of Pensions and Benefits. Appendix C contains summary tables which present the number and retirement allowances of members classified by age. The following summarizes and compares the Fund membership as of July 1, 2003 and July 1, 2004 by various categories.

MEMBERSHIP - ACTIVE

• There have been no active participants in the Plan since July 1, 1994.

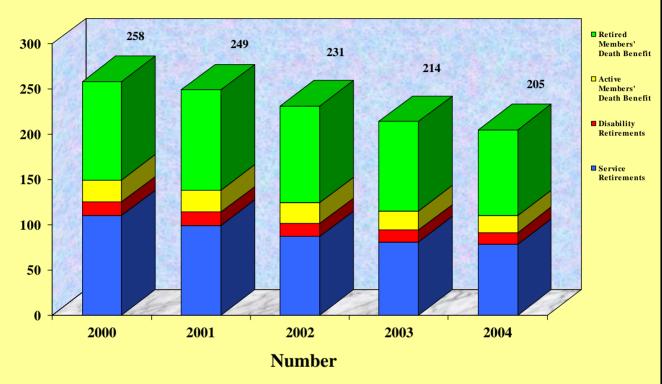
RETIRED MEMBERS AND BENEFICIARIES

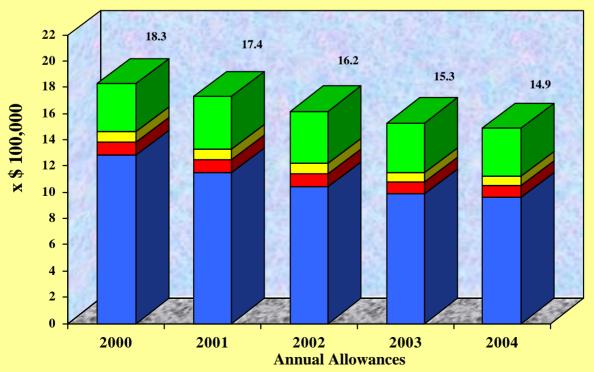
	2004			20	003	
GROUP	Number	1	Annual llowances	Number	Annual Allowances	
Service Retirements	78	\$	958,184	81	\$	987,069
Ordinary Disability Retirements	9	\$	59,721	9	\$	59,721
Accidental Disability Retirements	4	\$	33,554	4	\$	33,554
Active Members' Death Benefits	19	\$	68,677	21	\$	71,877
Retired Members' Death Benefits	95	\$	371,833	99	\$	375,712

Graphic presentations of the statistical data on membership for the five preceding years are shown on the following page.

THE PRISON OFFICERS' PENSION FUND OF NEW JERSEY

SUMMARY OF RETIRED PARTICIPATION





SECTION III - ASSETS, LIABILITIES AND CONTRIBUTIONS

A. Market Value of Assets as of June 30, 2004

	Assets		
	a. Cash	\$	156,955
	b. Investment Holdingsc. Accrued Interest		15,668,017
	c. Accrued Interestd. Pension Adjustment Receivable		174,912 105,555
	e. Total	\$	16,105,439
2.	Liabilities		
	a. Pension Payroll Payable	\$	87,963
	b. Pension Adjustment Payroll Payable		115,997
	c. Withholdings Payable		16,071
	d. Administrative Expense Payable		913
	e. Other Accounts Payablef. Total	\$	<u>67</u> 221,011
3.	Receivable Contribution	\$	0
4.	Market Value of Assets as of		
	June 30, $2004 = (1(e)) - (2(f)) + (3)$	\$	15,884,428
Reco	nciliation of Market Value of Assets from June 30, 2003	to June 30, 200	<u>4</u>
1.	Market Value of Assets as of June 30, 2003	\$	17,277,953
2.	Increases		
	a. Members' Contributions @ 6%	\$	0
	b. State Appropriations		0
	c. Pension Adjustment		1,264,147
	d. Investment Incomee. Total	\$	99,182 1,363,329
3.	Decreases	*	-,,-
	a. Retirement Allowances	\$	1,486,409
	b. Benefit Expense – Pension Adjustment	Ψ	1,264,147
	c. Administrative Expenses		6,298
	•	\$	2,756,854
	d. Total	*	2,700,00
4.	d. Total Receivable Contribution	\$	0

C.	Recor	nciliation of Actuarial Value of Assets and Ledger Assets	
	1.	Actuarial Value of Assets (Retirement Reserve Fund)	\$ 15,884,428
	2.	Pension Adjustment Fund: A(2)(b) - A(1)(d)	 10,442
	3.	Total Ledger Assets	\$ 15,894,870
D.	<u>Prese</u>	ent Value of Benefits	
	1.	Active Members	
		a. Service Retirementb. Death Before Retirementc. Death After Retirement	\$ 0 0 0
		d. Total	\$ 0
	2.	Service Retirees	\$ 6,846,084
	3.	Disability Retirees	\$ 596,596
	4.	Beneficiaries	\$ 2,618,030
	5.	Total = $(1(d)) + (2) + (3) + (4)$	\$ 10,060,710
E.	<u>Track</u>	king of Unfunded Accrued Liability/(Surplus)	
	1.	Unfunded Accrued Liability/(Surplus) as of July 1, 2003	\$ (6,550,306)
	2.	Interest on 1 at 5.00%	(327,515)
	3.	Contributions received	0
	4.	Interest on 3 at 5.00%	 0
	5.	Expected Unfunded Accrued Liability/(Surplus) as of July 1, $2004 = (1) + (2) - (3) - (4)$	\$ (6,877,821)
	6.	Actual Unfunded Accrued Liability/(Surplus) as of July 1, 2004	\$ (5,823,718)
	7.	Actuarial Loss/(Gain) = $(6) - (5)$	\$ 1,054,103

F. <u>Development of Required Contribution</u>

1.	Present Value of Benefits as of July 1, 2004	\$ 10,060,710
2.	Present Value of Future Contributions:	
	a. Future State Appropriationsb. Future Employee Contributionsc. Future State Normal Contributions	\$ 0 0 0
	d. Total	\$ 0
3.	Actuarial Value of Assets as of July 1, 2004	\$ 15,884,428
4.	Actuarial Surplus: $(1) - (2(d)) - (3)$	\$ (5,823,718)
5.	Amortization of Loss/Gain	\$ 0
6.	State Appropriations from prior valuation	\$ 0
7.	State Appropriations Payable July 1, 2005: $(5) + (6)$; not less than zero	\$ 0

G. Fund Projection

The following is an estimate of the expected receipts and disbursements for the Fund over the next year. The projection is based on the assumptions set forth in Appendix B. All receipts and disbursements are assumed to occur mid-year.

Year	July 1 Fund Balance	State Appropriation	Memb s Contribu		Pension Payments	Interest
2004	\$ 15,884,428	\$ 0	\$	0	\$1,445,897	\$ 758,515

SECTION IV - COMMENTS CONCERNING THE VALUATION

The variation in liabilities and contributions reflects the Fund's actual experience during the year. The Fund experienced a net actuarial loss during the year that ended June 30, 2004.

The actuarial loss was due primarily to a less than expected return on Fund assets. For valuation purposes, a 5.00% per annum rate of return on investments was assumed. The actual return on the Fund's actuarial value of assets was approximately 0.60% for the period July 1, 2003 through June 30, 2004.

There was also a relatively small experience loss due to mortality experience among the retired participants.

The actual accrued liability released due to deaths among retired participants and beneficiaries was less than anticipated by the present mortality assumptions.

The following outlines the effect of the primary actuarial experience components:

•	Investment Loss (Gain)	\$ 1,052,564
•	Other Loss (Gain), including mortality, changes in employee data	 1,539
•	Total Actuarial Loss (Gain)	\$ 1,054,103

SECTION V - ACCOUNTING INFORMATION

Statement No. 5 of the Governmental Accounting Standards Board, issued November 1986, established standards of disclosure of pension information by public retirement systems. Statement No. 25 of the Governmental Accounting Standards Board, issued November 1994, established financial reporting standards for defined benefit pension plans and for the notes to the financial statements of defined contribution plans of state and local governmental liabilities and superseded Statement No. 5 effective for periods beginning after June 15, 1996. Statement No. 27, Accounting for Pensions by State and Local Governmental Employers superseded Statement 5 for employers participating in pension plans and is effective for periods beginning after June 15, 1997.

The information required by Statements No. 25 and No. 27 is presented in the following tables. These include the development of the Annual Required Contribution (ARC), the development of the Net Pension Obligation (NPO), the Schedule of Funding Progress and the Schedule of Employer Contributions.

(A) Development of the Annual Required Contribution (ARC) as of June 30, 2006:

1. Actuarial Value of Plan Assets as of June 30, 2004

(a)	Valuation Assets as of June 30, 2004	\$ 15,884,428
(b)	Adjustment for Receivable Contributions included in (a)	 0
(c)	Valuation Assets as of June 30, 2004 for GASB Disclosure = (a) - (b)	\$ 15,884,428

2.		arial Accrued Liability as of June 30, 2004 GASB Disclosure	\$ 10,060,710
3.		anded Actuarial Accrued Liability/(Surplus) as of $30,2004 = (2) - (1 (c))$	\$ (5,823,718)
4.		ortization of Unfunded Actuarial Accrued ility/(Surplus) over 1 year	\$ (5,823,718)
5.	Nori	mal Cost as of June 30, 2004	\$ 0
6.	Ann	ual Required Contribution as of June 30, 2006	
	(a)	Annual Required Contribution as of June 30, 2004 $= (4) + (5)$	\$ (5,823,718)
	(b)	Interest Adjustment to June 30, 2006	 (596,931)
	(c)	Annual Required Contribution as of June 30, 2006 = (a) + (b)	\$ (6,420,649)
(B)	<u>D</u>	evelopment of the Net Pension Obligation (NPO) as of June 30, 2006:	
(B)		evelopment of the Net Pension Obligation (NPO) as of June 30, 2006: unal Required Contribution as of June 30, 2006	\$ (6,420,649)
	Anr		\$ (6,420,649) (361,086)
1.	Anr	nual Required Contribution as of June 30, 2006	\$, , ,
 2. 	Anr Inte Adj	nual Required Contribution as of June 30, 2006 rest on Net Pension Obligation	\$ (361,086)
 1. 2. 3. 	Anr Inte Adj Anr	rest on Net Pension Obligation ustment to Annual Required Contribution	 (361,086) 7,582,798
 1. 2. 3. 4. 	Anr Inte Adj Anr Exp Fisc	rual Required Contribution as of June 30, 2006 rest on Net Pension Obligation ustment to Annual Required Contribution rual Pension Cost = $(1) + (2) + (3)$ ected Employer Contributions For	\$ (361,086) 7,582,798 801,063
 2. 3. 4. 5. 	Anr Inte Adj Anr Exp Fisc Incr	rest on Net Pension Obligation ustment to Annual Required Contribution ual Pension Cost = $(1) + (2) + (3)$ ected Employer Contributions For	\$ (361,086) 7,582,798 801,063

(C) Schedule of Funding Progress

						Unfunded
						Actuarial
						Accrued Liability
						as a Percentage
		Actuarial	Unfunded			of Covered
Actuarial	Actuarial	Accrued	Actuarial	Funded	Covered	Payroll
Valuation	Value of Assets	Liability	Accrued Liability	Ratio	Payroll	<u>(b-a)</u>
Date	(a)	(b)	(b-a)	(a/b)	(c)	c
6/30/99	\$ 19,137,919	\$ 15,292,629	\$ (3,845,290)	125.1%	N/A	N/A
6/30/00	\$ 18,268,489	\$ 14,216,588	\$ (4,051,901)	128.5%	N/A	N/A
6/30/01	\$ 18,269,899	\$ 12,994,567	\$ (5,275,332)	140.6%	N/A	N/A
6/30/02	\$ 17,908,452	\$ 11,781,734	\$ (6,126,718)	152.0%	N/A	N/A
6/30/03	\$ 17,277,953	\$ 10,727,647	\$ (6,550,306)	161.1%	N/A	N/A
6/30/04	\$ 15,884,428	\$ 10,060,710	\$ (5,823,718)	157.9%	N/A	N/A

(D) Schedule of Employer Contributions

	A	nnual Required	Employer	Percentage	
Fiscal Year		Contribution	Contribution	Contributed	
2001	\$	0	\$ 0	100.0%	
2002	\$	0	\$ 0	100.0%	
2003	\$	0	\$ 0	100.0%	
2004	\$	0	\$ 0	100.0%	
2005	\$	0	\$ 0	100.0%	
2006	\$	0	\$ 0	100.0%	

(E) The information presented in the required supplementary schedules was determined as part of the actuarial valuation. Additional information follows:

Valuation Date June 30, 2004

Actuarial Cost Method Projected Unit Credit

Amortization Method Level Dollar, closed

Remaining Amortization Period 1 year

Asset Valuation Method Market Value

Actuarial Assumptions:

Investment Rate of Return 5.00%

APPENDIX A

BRIEF SUMMARY OF THE BENEFIT AND CONTRIBUTION PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

Eligibility for Membership

Employees of State penal institutions, employed prior to January 1, 1960 who did not transfer to the Police & Firemen's Retirement System in accordance with Chapter 205 of Public Law 1989. The System no longer accepts new members.

1. <u>Definitions</u>

Plan Year The 12-month period beginning on July 1 and ending on June 30.

Service A year is credited for each year an employee is a member of the

retirement system.

Average Final

Compensation (AFC) Average annual compensation (or base salary) for 3 years of

Service immediately preceding retirement. (Effective June 30, 1996, Chapter 113, P.L. 1997 provided that the amount of compensation used for employer and member contributions and benefits under the program cannot exceed the compensation limitation of Section 401(a)(17) of the Internal Revenue Code.)

Accumulated Deductions

The sum (without interest) of all required amounts deducted from the compensation of a member or contributed by him or on his

behalf.

2. Benefits

Service Retirements

25 years of service, or age 55 and 20 years of service. The benefit is a life annuity equal to the greater of (A), (B), and (C) below:

- (A) 2% of AFC up to 30 years of service plus 1% for each year in excess of 30 and prior to age 65;
- (B) 50% of final pay; and
- (C) For a member with 25 years of service, 2% of AFC up to 30 years of service plus 1% for each year in excess of 30.

Vested Retirements

Eligible upon termination of employment. Benefits are summarized as follows:

Termination with 10 or more years of service: Benefit is a deferred life annuity equal to 2% of AFC for service up to 30 years plus 1% for service over 30 years.

Termination with less than 10 years of service: Refund of accumulated deductions.

Ordinary Disability Retirement

Permanent and total disability for causes other than as a direct result of a traumatic event occurring during the performance of regular or assigned duties. Benefit is an immediate life annuity equal to 1/2 of AFC.

Accidental Disability Retirement

Permanent and total disabled as a direct result of a traumatic event occurring while performing regular or assigned duties. Benefit is an immediate life annuity equal to 2/3 of AFC.

Death Benefits

Death of member of system. Spouse must be married to member prior to retirement, or at least five years before member's death. Benefit is an annuity equal to 25% of member's AFC plus an additional 15% (25%) for one (two or more) surviving dependent child (children). If there is no spouse or if the spouse dies or remarries, 20% (35%, 50%) of AFC to one (two, three or more) surviving child (children). If there is no surviving spouse or children, 25% (40%) of AFC to one (two) dependent parent(s). The provision for a survivor annuity payable to dependent parents does not apply in the death of a retired member of the system.

Minimum benefits: Minimum spousal annuity is \$1,600 per annum. If no other benefit is payable prior to retirement, the member's beneficiary shall receive the accumulated deductibles.

3. Employee Contributions

Each member contributes 6% of compensation.

APPENDIX B

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

<u>VALUATION INTEREST RATE</u>: 5.0% per annum, compounded annually.

<u>DEATHS AFTER RETIREMENT</u>: Representative values of the Assumed Annual rates of

mortality for current retirees are as follows:

Age	Service Retirement	Disability Retirement	Widows
40	.21%	.90%	.56%
45	.34	1.10	.68
50	.56	1.42	.87
55	.90	1.93	1.18
60	1.42	2.72	1.67
65	2.17	3.97	2.43
70	2.75	5.91	3.63
75	4.46	8.91	5.50
80	7.41	13.46	8.39
85	11.48	20.22	12.80

MARRIAGE: Husbands are assumed to be 3 years older than wives.

VALUATION METHOD:

The unfunded accrued liability (the difference between the present value of benefits and the valuation assets) was determined as of July 1, 1988 and was amortized over the 14-year period beginning July 1, 1989, and ending on July 1, 2002. Each year the amortization payments were adjusted to reflect any experience gains or losses that occurred during the previous plan year. All gains and losses were amortized over the remaining original amortization period. (Without any guidance, we have assumed that any unfunded accrued liability that develops after the July 1, 2001 valuation will be amortized over 1 year).

ASSET VALUATION METHOD

Assets are valued at book value which is equivalent to market value.

APPENDIX C

TABULATIONS USED AS A BASIS FOR THE 2004 VALUATION

The following tables give the number and retirement allowances of retired members and beneficiaries classified by age as of July 1, 2004.

TABLE 1

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2004

SERVICE RETIREMENTS

MEN **WOMEN AGE NUMBER AMOUNT NUMBER AMOUNT** 70 \$ 1 25,660 71 12,752 1 72 4 63,333 73 3 48,045 74 5 85,691 7 75 82,521 5 76 54,362 77 7 74,423 78 3 58,696 2 79 24,147 80 3 35,675 81 4 60,045 82 4 74,264 3 31,355 83 84 6 58,686 85 5 46,192 1 7,389 4 44,337 86 87 1 5,591 88 1 11,417 89 2 13,807 90 3 22,621 94 1 6,474 2 10,701 96 **TOTAL** 77 \$ 950,795 1 7,389

TABLE 2

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2004

ORDINARY DISABILITY RETIREMENTS

		MEN		WOMEN			
AGE	NUMBER	AMOUNT		NUMBER	AMOUNT		
68	1	\$	7,701				
71	1		7,655				
73	1		6,124				
74	1		5,716				
75	2		14,829				
76	1		7,208				
83	1		5,430				
84	1		5,058				
TOTAL	9	\$	59,721	0	\$	0	

TABLE 3

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2004

ACCIDENTAL DISABILITY RETIREMENTS

		MEN		WOMEN		
AGE	NUMBER	A	AMOUNT	NUMBER	AM	OUNT
76	1	\$	7,258			
77	1		8,751			
78	1		12,391			
83				1	\$	5,155
TOTAL	3	\$	28,399	1	\$	5,155

TABLE 4

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 2004

ACTIVE MEMBERS' DEATH BENEFITS

AGE	-	MEN		WOMEN			
	NUMBER	AMOUNT		NUMBER	AMOUNT		
51				1	\$	5,174	
70	1	\$	2,976				
71				1		7,622	
72				1		3,535	
74	1		3,268	1		2,798	
75				1		5,431	
76				2		9,922	
78				1		5,714	
79				4		9,359	
82				1		2,672	
83				1		3,196	
85				2		5,410	
87				1		1,600	
TOTAL	2	\$	6,244	17	\$	62,433	

TABLE 5

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 2004

RETIRED MEMBERS' DEATH BENEFITS

MEN WOMEN AGE NUMBER **AMOUNT NUMBER AMOUNT** 1 53 \$ 1,001 1 \$ 64 7,533 66 1 3,894 9,745 68 69 1 2,355 70 2 10,687 71 1 4,762 72 2 10,016 73 3 16,470 2 74 11,722 5 75 20,210 76 5 30,863 5 77 16,062 3 78 12,645 79 7 31,201 80 3 18,998 81 6 23,865 82 7 24,660 83 3 13,205 7 84 25,407 85 5 14,823 2 86 9,100 3 7,699 87 88 3 7,065 5 89 12,943 3 90 6,122 91 1 2,487 92 1 1,695 93 2 5,600 95 2 5,657 102 1 1,743 103 1 1,600 **TOTAL** 1 \$ 1,001 94 370,832