

SECURITIES AND EXCHANGE COMMISSION

FORM 13F-HR

Initial quarterly Form 13F holdings report filed by institutional managers

Filing Date: **2006-05-08** | Period of Report: **2006-03-31**
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FILER

KOPP INVESTMENT ADVISORS LLC

CIK: **884306** | IRS No.: **411663810** | State of Incorpor.: **MN** | Fiscal Year End: **1231**
Type: **13F-HR** | Act: **34** | File No.: **028-03099** | Film No.: **06816240**

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UNITED STATES
 SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

Form 13F

Form 13F COVER PAGE

Report for the Calendar Year or Quarter Ended: 03/31/06

Check here if Amendment [] ; Amendment Number:

This Amendment (Check only one.): [] is a restatement.
 [] adds new holdings entries.

Institutional Investment Manager Filing this Report:

Name: Kopp Investment Advisors, LLC
 Address: 7701 France Ave. So., Suite 500
 Edina, MN 55435

Form 13F File Number: 28-03099

The institutional investment manager filing this report and the person by whom it is signed hereby represent that the person signing the report is authorized to submit it, that all information contained herein is true, correct and complete, and that it is understood that all required items, statements, schedules, lists, and tables, are considered integral parts of this form.

Person Signing this Report on Behalf of Reporting Manager:

Name: John P. Flakne
 Title: Chief Financial Officer
 Phone: (952) 841-0400

Signature, Place and Date of Signing:

Edina, MN 5/8/06

Report Type (Check only one.):

- 13F HOLDINGS REPORT. (Check here if all holdings of this reporting manager are reported in this report.)
- 13F NOTICE. (Check here if no holdings reported are in this report, and all holdings are reported by other reporting manager(s).)
- 13F COMBINATION REPORT. (Check here if a portion of the holdings for this reporting manager are reported in this report and a portion are reported by other reporting manager(s).)

Form 13F SUMMARY PAGE

Report Summary:

Number of Other Included Managers: 0
 Form 13F Information Table Entry Total: 238
 Form 13F Information Table Value Total: \$ 1,629,715
 (thousands)

List of Other Included Managers: NONE

<TABLE>

NAME OF ISSUER	TITLE OF CLASS	CUSIP	FORM 13F INFORMATION TABLE						OTHER MANAGERS	VOTING AUTHORITY		
			VALUE (x\$1000)	SHARES/ PRN AMT	SH/ PRN	PUT/ CALL	INVSTMT DCRETN	SOLE		SHARED	NONE	
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ADC Telecomm	COM	000886309	15354	600000	SH		SOLE		600000			
			31826	1243706	SH		OTHER		940883			302823
Actuate Corp.	COM	00508B102	319	75000	SH		OTHER					75000
Adept Tech Inc.	COM	006854202	2895	289549	SH		SOLE		289549			
			5298	529761	SH		OTHER		177761			352000

Aeroflex Inc.	COM	007768104	281	20500	SH	OTHER	20500	
Array Biopharma Inc.	COM	04269X105	10968	1200000	SH	SOLE	1200000	
			24825	2716120	SH	OTHER	2057420	658700
Arthrocare Corp.	COM	043136100	10520	220000	SH	SOLE	220000	
			29299	612700	SH	OTHER	455950	156750
Bookham Inc.	COM	09856E105	477	50000	SH	SOLE	50000	
			8730	915110	SH	OTHER	785460	129650
Caliper Life Sciences	COM	130872104	7040	1100000	SH	SOLE	1100000	
			10442	1631530	SH	OTHER	1189530	442000
Cell Genesys Inc.	COM	150921104	15960	2000000	SH	SOLE	2000000	
			29902	3747090	SH	OTHER	2520490	1226600
Centillum Comm	COM	152319109	4979	1300000	SH	SOLE	1300000	
			3822	997800	SH	OTHER	825100	172700
Cepheid Inc.	COM	15670R107	5496	600000	SH	SOLE	600000	
			18214	1988390	SH	OTHER	1502090	486300
Cognos Inc. (Canada)	COM	19244C109	9818	252378	SH	OTHER	213528	38850
Conexant Systems	COM	207142100	2692	780224	SH	OTHER	556324	223900
Curagen Corp.	COM	23126R101	1453	290000	SH	SOLE	290000	
			5017	1001330	SH	OTHER	468530	532800
Cutera Inc.	COM	232109108	5424	200000	SH	SOLE	200000	
			8004	295150	SH	OTHER	239425	55725
Cyberoptics Corp.	COM	232517102	1497	100000	SH	SOLE	100000	
			6433	429700	SH	OTHER	299250	130450
Depomed Inc.	COM	249908104	7510	1150000	SH	SOLE	1150000	
			18309	2803870	SH	OTHER	2040020	763850
Dexcom Inc.	COM	252131107	5068	250000	SH	SOLE	250000	
			17026	839975	SH	OTHER	724575	115400
Digimarc Corp.	COM	253807101	7470	1000000	SH	SOLE	1000000	
			8568	1146993	SH	OTHER	751493	395500
Diversa Corp.	COM	255064107	12468	1368650	SH	OTHER	1070550	298100
E-Z-EM Inc.	COM	269305405	6661	297500	SH	SOLE	297500	
			11287	504115	SH	OTHER	449515	54600
EMS Technologies Inc.	COM	26873N108	12155	674144	SH	OTHER	420269	253875
Emcore Corp.	COM	290846104	1338	131200	SH	OTHER	27200	104000
Epicor Software Corp.	COM	29426L108	17459	1300000	SH	SOLE	1300000	
			39003	2904192	SH	OTHER	873092	2031100
Finisar Corp.	COM	31787A101	19680	4000000	SH	SOLE	4000000	
			36575	7433855	SH	OTHER	5482355	1951500
Gen-Probe Inc.	COM	36866T103	5512	100000	SH	SOLE	100000	
			474	8600	SH	OTHER	6950	1650
Glenayre Technologies	COM	377899109	3058	582500	SH	OTHER	160500	422000
Harvard Bioscience	COM	416906105	1238	282040	SH	SOLE	282040	
			8242	1877430	SH	OTHER	1258730	618700
Hyperion Solutions	COM	44914M104	11410	350000	SH	SOLE	350000	
			21092	646981	SH	OTHER	480908	166073
Informatica Corp.	COM	45666Q102	15876	1020985	SH	OTHER	877885	143100
Iris Intl Inc	COM	46270W105	7656	489815	SH	OTHER	437415	52400
JDS Uniphase Corp.	COM	46612J101	321	76864	SH	OTHER	66864	10000
Lecroy Corp.	COM	52324W109	1576	100721	SH	OTHER	80821	19900
Lightbridge Inc.	COM	532226107	4148	373700	SH	OTHER	315400	58300
Lionbridge Tech	COM	536252109	5708	721620	SH	OTHER	654320	67300
MRO Software Inc.	COM	55347W105	5905	370000	SH	SOLE	370000	
			16431	1029525	SH	OTHER	875225	154300
Mapinfo Corp.	COM	565105103	11216	800000	SH	SOLE	800000	
			14704	1048784	SH	OTHER	643084	405700
Medarex Inc.	COM	583916101	19830	1500000	SH	SOLE	1500000	
			47940	3626320	SH	OTHER	2694470	931850
Micrel Inc.	COM	594793101	2453	165550	SH	OTHER	139950	25600
Micro Component Tech	COM	59479Q100	546	1138212	SH	OTHER	79712	1058500
Mindspeed Tech	COM	602682106	7960	2000000	SH	SOLE	2000000	
			23883	6000844	SH	OTHER	4448036	1552808
Neose Tech Inc.	COM	640522108	6775	2500000	SH	SOLE	2500000	
			10966	4046520	SH	OTHER	2768470	1278050
Netmanage Inc.	COM	641144308	1871	311765	SH	OTHER	3223	308542
Network Equipment	COM	641208103	2661	670278	SH	OTHER	97848	572430
Neurocrine Biosciences	COM	64125C109	10107	156605	SH	OTHER	132555	24050
Nortel Network (New)	COM	656568102	497	162900	SH	OTHER	2900	160000
Nuvasive Inc	COM	670704105	9425	500000	SH	SOLE	500000	
			27789	1474244	SH	OTHER	1269884	204360
Oplink Communications	COM	68375Q403	13005	750000	SH	SOLE	750000	
			14852	856542	SH	OTHER	519958	336584
PLX Technology	COM	693417107	5020	400000	SH	SOLE	400000	
			22597	1800525	SH	OTHER	1514160	286365
PMC-Sierra Inc.	COM	69344F106	3073	250000	SH	SOLE	250000	
			5401	439455	SH	OTHER	270555	168900
Pemstar Inc.	COM	706552196	21	10000	SH	OTHER	10000	
Phase Forward Inc.	COM	71721R406	5570	500000	SH	SOLE	500000	
			21575	1936690	SH	OTHER	1658590	278100
Power Integrations Inc.	COM	739276103	8043	324575	SH	OTHER	277225	47350
Previo Inc.	COM	74138B105	5	79700	SH	OTHER	79700	
Quicklogic Corp.	COM	74837P108	6314	1100000	SH	SOLE	1100000	
			7359	1282000	SH	OTHER	615300	666700
Quidel Corp.	COM	74838J101	3218	250000	SH	SOLE	250000	
			26156	2032345	SH	OTHER	1512195	520150
RAE Systems	COM	75061P102	2142	600000	SH	SOLE	600000	

RF Monolithics Inc.	COM	74955F106	12024	3368050	SH	OTHER	2651550	716500
			184	30000	SH	SOLE	30000	
			1687	274800	SH	OTHER	71300	203500
Redback Networks	COM	757209507	33186	1530000	SH	SOLE	1530000	
			74118	3417135	SH	OTHER	2492296	924839
Regeneration Tech	COM	75886n100	1172	150000	SH	SOLE	150000	
			2282	292140	SH	OTHER	261940	30200
Rita Medical Systems	COM	76774E103	2568	650000	SH	SOLE	650000	
			11509	2913555	SH	OTHER	2554805	358750
Salix Pharmaceutical	COM	795435106	3302	200000	SH	SOLE	200000	
			11457	693935	SH	OTHER	548331	145604
Sangamo Biosciences	COM	800677106	6545	1100000	SH	SOLE	1100000	
			20146	3385845	SH	OTHER	2295645	1090200
Semtech Corp.	COM	816850101	634	35425	SH	OTHER	30825	4600
Skyworks Solutions	COM	83088M102	466	68661	SH	OTHER	64100	4561
SonoSite Inc.	COM	83568G104	16256	400000	SH	SOLE	400000	
			34000	836610	SH	OTHER	660410	176200
Stratex Networks Inc.	COM	86279T109	24600	4000000	SH	SOLE	4000000	
			53069	8629069	SH	OTHER	6253319	2375750
Sunrise Telecom	COM	86769Y105	1144	508250	SH	OTHER	394350	113900
Superconductor Tech	COM	867931305	2547	640000	SH	SOLE	640000	
			4968	1248192	SH	OTHER	575892	672300
Symmetricon Inc.	COM	871543104	14710	1720435	SH	OTHER	1502835	217600
Symyx Technologies	COM	87155S108	3606	130000	SH	SOLE	130000	
			25757	928520	SH	OTHER	662645	265875
Techne Corp.	COM	878377100	6355	105666	SH	OTHER	94491	11175
Tekelec	COM	879101103	11087	801669	SH	OTHER	683669	118000
Tellabs Inc.	COM	879664100	930	58486	SH	OTHER	50468	8018
Transgenomic Inc.	COM	89365K206	2720	3400000	SH	SOLE	3400000	
			5340	6675130	SH	OTHER	4124630	2550500
Tut Systems Inc.	COM	901103101	10263	3300000	SH	SOLE	3300000	
			22959	7382428	SH	OTHER	3908228	3474200
Ventana Medical	COM	92276H106	3342	80000	SH	SOLE	80000	
			21597	517038	SH	OTHER	434838	82200
Verilink Corp.	COM	923432108	1618	2420000	SH	SOLE	2420000	
			1622	2424922	SH	OTHER	1140665	1284257
Verint Systems	COM	92343x100	1355	38300	SH	OTHER	29750	8550
Verisign Inc.	COM	92343E102	8876	370000	SH	SOLE	370000	
			29600	1233855	SH	OTHER	936665	297190
Vital Images	COM	92846N104	3408	100000	SH	SOLE	100000	
			20889	612945	SH	OTHER	520470	92475
Vitesse Semiconductor	COM	928497106	10740	3000000	SH	SOLE	3000000	
			15913	4445088	SH	OTHER	3113788	1331300
WJ Communications	COM	929284107	7560	3000000	SH	SOLE	3000000	
			19238	7634291	SH	OTHER	4891441	2742850
Zymogenetics Inc.	COM	98985T109	4324	200000	SH	SOLE	200000	
			11743	543155	SH	OTHER	481580	61575
3M Company		88579Y101	3887	51350	SH	OTHER	42148	9202
Aflac Incorporated		001055102	425	9420	SH	OTHER	9320	100
Air Prod & Chem		009158106	321	4780	SH	OTHER	4780	
Allstate Corp.		020002101	3952	75842	SH	OTHER	62852	12990
American Express		025816109	3901	74230	SH	OTHER	61260	12970
American Int'l Group		026874107	302	4570	SH	OTHER	4570	
Amgen Inc. (Calif)		031162100	482	6620	SH	OTHER	6395	225
Anadarko Petroleum		032511107	317	3140	SH	OTHER	3140	
Anheuser Busch		035229103	377	8805	SH	OTHER	8805	
Applied Materials Inc		038222105	296	16880	SH	OTHER	16880	
Bankamerica Corp		060505104	4176	91699	SH	OTHER	75989	15710
Baxter International		071813109	3855	99326	SH	OTHER	81981	17345
Bemis Co Inc		081437105	335	10620	SH	OTHER	10620	
Best Buy Co. Inc.		086516101	334	5977	SH	OTHER	5977	
Black & Decker Corp.		091797100	483	5555	SH	OTHER	5495	60
Boeing Company		097023105	520	6670	SH	OTHER	6600	70
Boston Scientific Corp.		101137107	297	12895	SH	OTHER	12895	
Cardinal Health		14149Y108	755	10125	SH	OTHER	9630	495
Caterpillar Inc.		149123101	749	10435	SH	OTHER	9985	450
Cendant Corp		151313103	230	13245	SH	OTHER	13245	
Cisco System Inc.		17275R102	450	20760	SH	OTHER	20360	400
Citigroup Inc		172967101	422	8945	SH	OTHER	8880	65
Coach Inc.		189754104	303	8760	SH	OTHER	8760	
Computer Sciences		205363104	386	6945	SH	OTHER	6945	
ConocoPhillips		20825C104	308	4870	SH	OTHER	4870	
Constellation Energy		210371100	594	10860	SH	OTHER	10385	475
Corning Inc.		219350105	332	12315	SH	OTHER	12315	
Countrywide Financial		222372104	297	8100	SH	OTHER	8100	
Dell Computer Corp		24702R101	219	7375	SH	OTHER	7375	
Dominion Res Inc. VA		25746U109	241	3485	SH	OTHER	3485	
Dow Chemical Co.		260543103	3647	89835	SH	OTHER	74511	15324
Eastman Kodak Co.		277461109	1110	39014	SH	OTHER	34254	4760
Eaton Corporation		278058102	340	4665	SH	OTHER	4665	
Ebay Inc.		278642103	268	6875	SH	OTHER	6875	
Emerson Electric Co.		291011104	424	5065	SH	OTHER	5065	
Entergy Corp New		29364G103	3688	53495	SH	OTHER	44355	9140
Exxon Mobil		30231G102	3996	65660	SH	OTHER	54555	11105
FedEx Corp.		31428X106	4431	39229	SH	OTHER	32554	6675

Fifth Third Bancorp	316773100	568	14425	SH	OTHER	14300	125
First Data Corp.	319963104	513	10950	SH	OTHER	10835	115
General Electric Co.	369604103	355	10200	SH	OTHER	10200	
HCA Inc.	404119109	276	6030	SH	OTHER	6030	
Halliburton Company	406216101	530	7255	SH	OTHER	7190	65
Harley Davidson Inc.	412822108	269	5190	SH	OTHER	5190	
Hershey Foods Corp.	427866108	311	5945	SH	OTHER	5945	
Home Depot Inc.	437076102	467	11040	SH	OTHER	10920	120
Ingersoll-Rand	G4776G101	285	6820	SH	OTHER	6820	
Intel Corp.	458140100	533	27391	SH	OTHER	24491	2900
Intl. Business Machines	459200101	438	5305	SH	OTHER	5245	60
Intuit Inc.	461202103	315	5920	SH	OTHER	5920	
Johnson & Johnson	478160104	3736	63083	SH	OTHER	52138	10945
Johnson Controls Inc.	478366107	4541	59810	SH	OTHER	49665	10145
Knight Ridder Inc.	499040103	574	9080	SH	OTHER	9000	80
Lilly Eli & Co.	532457108	380	6870	SH	OTHER	6870	
Lockheed Martin	539830109	329	4380	SH	OTHER	4380	
Marriott Intl. Inc.	571903202	3937	57387	SH	OTHER	47427	9960
Medtronic Inc.	585055106	664	13091	SH	OTHER	11791	1300
Merrill Lynch & Co.	590188108	1281	16265	SH	OTHER	14505	1760
Microsoft Corp.	594918104	1152	42335	SH	OTHER	37070	5265
Monsanto Co.	61166W101	322	3805	SH	OTHER	3805	
Motorola Inc.	620076109	4271	186441	SH	OTHER	154525	31916
National Semicond	637640103	366	13140	SH	OTHER	13140	
Noble Corp.	G65422100	364	4490	SH	OTHER	4490	
Nordstrom Inc.	655664100	1110	28320	SH	OTHER	25125	3195
Northern Trust	665859104	348	6625	SH	OTHER	6625	
Nucor Corp	670346105	899	8575	SH	OTHER	8050	525
Oracle Systems Corp	68389X105	279	20380	SH	OTHER	20380	
PNC Finl Svcs Group	693475105	309	4595	SH	OTHER	4595	
Pepsico Inc.	713448108	1017	17605	SH	OTHER	15550	2055
Pfizer Inc.	717081103	359	14410	SH	OTHER	14410	
Pitney Bowes Inc.	724479100	457	10645	SH	OTHER	10525	120
Proctor & Gamble	742718109	3652	63375	SH	OTHER	52670	10705
Progressive Corp	743315103	273	2620	SH	OTHER	2620	
Public Storage Inc.	74460d109	308	3790	SH	OTHER	3790	
Quest Diagnostics	74834L100	306	5970	SH	OTHER	5970	
S&P DRT Unit Ser 1	78462F103	440	3390	SH	OTHER	2350	1040
Sara Lee Corp.	803111103	411	23005	SH	OTHER	23005	
Sempra Energy	816851109	288	6195	SH	OTHER	6195	
Simon Property Group	828806109	544	6460	SH	OTHER	6400	60
Solectron Corp	834182107	651	162805	SH	OTHER	154615	8190
Southern Company	842587107	280	8545	SH	OTHER	8545	
Southwest Airlines Co	844741108	331	18405	SH	OTHER	18405	
Sprint Nextel	852061100	325	12575	SH	OTHER	12575	
Staples Inc	855030102	335	13130	SH	OTHER	13130	
Starbucks Corp	855244109	361	9595	SH	OTHER	9595	
State Street Corp.	857477103	354	5860	SH	OTHER	5860	
Synovus Financial	87161C105	279	10290	SH	OTHER	10290	
Target Corp.	87612E106	317	6100	SH	OTHER	5800	300
Texas Instruments Inc.	882508104	4158	128068	SH	OTHER	105578	22490
Time Warner Inc.	887317105	258	15390	SH	OTHER	15390	
United Healthcare	91324P102	289	5165	SH	OTHER	5165	
Valero Energy	91913Y100	337	5630	SH	OTHER	5630	
Verizon Comm.	92343V104	493	14460	SH	OTHER	14095	365
Wal-Mart Stores Inc.	931142103	470	9945	SH	OTHER	9570	375
Walgreen Company	931422109	286	6630	SH	OTHER	6630	
Walt Disney	254687106	306	10977	SH	OTHER	10977	
Wells Fargo & Co.	949746101	430	6740	SH	OTHER	6490	250
Weyerhaeuser Co.	962166104	479	6620	SH	OTHER	6545	75
Whirlpool Corp	963320106	493	5395	SH	OTHER	5395	
Xcel Energy Inc.	98389B100	368	20290	SH	OTHER	20290	
Xerox Corp.	984121103	293	19290	SH	OTHER	19290	

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