

SECURITIES AND EXCHANGE COMMISSION

FORM 13F-HR

Initial quarterly Form 13F holdings report filed by institutional managers

Filing Date: **2004-05-18** | Period of Report: **2004-03-31**
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FILER

RHO CAPITAL PARTNERS INC

CIK: **1020455** | IRS No.: **133087622** | State of Incorporation: **NY** | Fiscal Year End: **1231**
Type: **13F-HR** | Act: **34** | File No.: **028-05883** | Film No.: **04813948**

Mailing Address
*152 WEST 57TH STREET
23RD FLOOR
NEW YORK NY 10019*

Business Address
*152 WEST 57TH STREET
23RD FLOOR
NEW YORK NY 10019
2127516677*

Form 13F Information Table Entry Total: 45
 Form 13F Information Table Value Total: \$166,080
 (thousands)

List of Other Included Managers:

Provide a numbered list of the name(s) and Form 13F file number(s) of all institutional investment managers with respect to which this report is filed, other than the manager filing this report.

NONE

<TABLE>

FORM 13F INFORMATION TABLE

Name of Issuer	Title of Class	CUSIP	Value (x\$1000)	Shares/ PrnAmt	Sh/ Prn	Put/ Call	Invstmt Discret	Other Mngrs	Voting Authority		
									Sole	Shared	None
<S>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>	<C>
ACTIVE POWER INC	COM	00504W100	2,684	833,669	SH		Sole		833,669		
ADVANCIS PHRMCTCL CORP	COM	00764L109	9,674	1,058,462	SH		Sole		1,058,462		
AGERE SYS INC	CL B	00845V209	332	106,516	SH		Sole		106,516		
AIRSPAN NETWORKS INC	COM	00950H102	9,524	1,630,853	SH		Sole		1,630,853		
ALLSTATE CORP	COM	020002101	205	4,500	SH		Sole		4,500		
ALLTEL CORP	COM	020039103	259	5,200	SH		Sole		5,200		
AON CORP	COM	037389103	435	15,575	SH		Sole		15,575		
AROTECH CORP	COM	042682104	97	50,550	SH		Sole		50,550		
ASHLAND INC	COM	044204105	331	7,125	SH		Sole		7,125		
AVANT IMMUNOTHER	COM	053491106	2,359	903,708	SH		Sole		903,708		
BOEING CO	COM	097023105	481	11,700	SH		Sole		11,700		
CAPSTONE TURBINE CORP	COM	14067D102	5,003	2,025,467	SH		Sole		2,025,467		
CIGNA CORP	COM	125509109	382	6,475	SH		Sole		6,475		
CISCO SYS INC	COM	17275R102	370	15,707	SH		Sole		15,707		
CIT GROUP INC	COM	125581108	268	7,050	SH		Sole		7,050		
CITIGROUP INC	COM	172967101	308	5,950	SH		Sole		5,950		
CNF INC	COM	12612W104	302	9,000	SH		Sole		9,000		
COMMERCE ONE INC DEL	COM	200693208	161	99,727	SH		Sole		99,727		
COMPUTER ASS INTL INC	COM	204912109	692	25,775	SH		Sole		25,775		
CYBERONICS INC	COM	23251P102	27,253	1,137,919	SH		Sole		1,137,919		
DIVERSA CORP	COM	255064107	14,621	1,639,153	SH		Sole		1,639,153		
GENAERA CORP	COM	36867G100	1,282	286,890	SH		Sole		286,890		
GENVEC INC	COM	37246C109	8,994	2,591,790	SH		Sole		2,591,790		
GENZYME CORPORATION	COM	372917104	603	12,880	SH		Sole		12,880		
HEWLETT PACKARD CO	COM	428236103	369	16,150	SH		Sole		16,150		
HUMN GENOME SCCES INC	COM	444903108	1,907	187,497	SH		Sole		187,497		
IVILLAGE INC	COM	46588H105	11,439	1,672,319	SH		Sole		1,672,319		
LEAR CORP	COM	521865105	285	4,600	SH		Sole		4,600		
LOEWS CORP	COM	540424108	335	5,675	SH		Sole		5,675		
LUCENT TECHNOLOGIES	COM	549463107	1,655	402,614	SH		Sole		402,614		
MILLENNIUM PHARMACTLS	COM	599902103	1,351	79,938	SH		Sole		79,938		
MOBILE TELESYSTMS	SPNS ADR	607409109	1,944	14,785	SH		Sole		14,785		
MONSANTO CO NEW	COM	61166W101	201	5,475	SH		Sole		5,475		

MRO SOFTWARE INC	COM	55347W105	806	69,385	SH	Sole	69,385
NITROMED INC	COM	654798503	42,745	5,445,215	SH	Sole	5,445,215
ONESOURCE INFO SVCS	COM	68272J106	3,025	368,065	SH	Sole	368,065
QUOVADX INC	COM	74913K106	372	101,106	SH	Sole	101,106
ROSTELECOM LNG DIS	SPNS ADR	778529107	1,590	106,723	SH	Sole	106,723
SARA LEE CORP	COM	803111103	395	18,050	SH	Sole	18,050
TORCHMARK CORP	COM	891027104	217	4,025	SH	Sole	4,025
VIAD CORP	COM	92552R109	268	11,100	SH	Sole	11,100
VICURON PHARMCTLS INC	COM	926471103	9,579	421,055	SH	Sole	421,055
WASHINGTON MUT INC	COM	939322103	243	5,700	SH	Sole	5,700
WHIRLPOOL CORP	COM	963320106	367	5,325	SH	Sole	5,325
WISCONSIN ENERGY CORP	COM	976657106	367	11,425	SH	Sole	11,425

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