

Morgan Stanley Investment Management

Variable Insurance Funds

VIF Growth Portfolio

Holdings are as of the date indicated and subject to change. Holdings are provided for informational purposes only and should not be construed as a recommendation or solicitation for any securities listed. There is no assurance that any strategy will achieve its investment objective. Investing involves risks including the possible loss of principal. Please refer to the fund's prospectus for more complete risk information.

All Fund Holdings | as of 09/30/2023

SECURITY NAME	CUSIP	ISIN	SEDOL	PAR/SHARES	% OF PORTFOLIO
UBER TECHNOLOGIES INC	90353T100	US90353T1007	BK6N347	705,282	7.45
CLOUDFLARE INC CL A	18915M107	US18915M1071	BJXC5M2	512,965	7.42
TRADE DESK INC/THE -CLASS A	88339J105	US88339J1051	BD8FDD1	412,890	7.41
SHOPIFY INC - CLASS A	82509L107	CA82509L1076	BXDZ9Z0	546,310	6.84
DOORDASH INC	25809K105	US25809K1051	BN13P03	345,452	6.30
SNOWFLAKE INC	833445109	US8334451098	BN134B7	177,788	6.24
AIRBNB INC	009066101	US0090661010	BMGYH4	166,753	5.25
TESLA INC	88160R101	US88160R1014	B616C79	89,067	5.12
BILL HOLDINGS INC	090043100	US0900431000	BKDS4H5	204,937	5.11
ROYALTY PHARMA PLC- CL A	G7709Q104	GB008BMVP7Y09	BMVP7Y0	742,457	4.63
ROBLOX CORP -CLASS A	771049103	US7710491033	BMWBC20	671,973	4.47
AGILON HEALTH INC	00857U107	US00857U1079	BLR4TK4	911,781	3.72
CARVANA CO	146869102	US1468691027	BYQHGP3	274,865	2.65
MERCADOLIBRE INC	58733R102	US58733R1023	B23X1H3	9,056	2.64
ADYEN NV	BZ1HM4902	NL0012969182	BZ1HM42	15,159	2.58
AFFIRM HOLDINGS INC	00827B106	US00827B1061	BMF9NM8	505,424	2.47
Cash	XXXX1	XXXX1	XXXX1	10,052,740	2.31
Databricks, Inc.				113,088	1.91
GRAB HOLDINGS LTD - CL A	G4124C109	KYG4124C1096	BP6NH40	2,210,355	1.80
GLOBAL-E ONLINE LTD	M5216V106	IL0011741688	BN770J3	193,133	1.76
Grayscale Bitcoin Trust	389637109	US3896371099	BFY28C4	360,224	1.59
GITLAB INC	37637K108	US37637K1088	BMTVT22	135,892	1.41
SAMSARA INC-CL A	79589L106	US79589L1061	BPK3058	238,084	1.38
PROCORE TECHNOLOGIES INC	74275K108	US74275K1088	BLH11J8	74,938	1.12
WAYFAIR INC - CLASS A	94419L101	US94419L1017	BQXZP64	70,568	0.98
AURORA INNOVATION INC	051774107	US0517741072	BMF0P92	1,706,923	0.92
ROIIVANT SCIENCES LTD	G76279101	BMG762791017	BMW4NZ9	331,353	0.89
PELOTON INTERACTIVE INC CL A	70614W100	US70614W1009	BJ7WJS2	457,641	0.53
DOXIMITY INC-CLASS A	26622P107	US26622P1075	BMD22Y4	107,299	0.52
DATABRICKS INC. SERIES I PREE COMMON STOCK				30,506	0.51
10X GENOMICS INC CL A	88025U109	US88025U1097	BKS3RS7	47,349	0.45
COINBASE GLOBAL INC	19260Q107	US19260Q1076	BMC9P69	23,755	0.41
GINKGO BIOWORKS HOLDINGS INC	37611X100	US37611X1000	BN6KXF0	851,540	0.35
INTELLIA THERAPEUTICS	45826J105	US45826J1051	BYZM6C2	38,556	0.28
Stripe, Inc.				52,681	0.28
RIVIAN AUTOMOTIVE INC-A	76954A103	US76954A1034	BL98841	48,118	0.27
PROKIDNEY CORP	G7553R104	KYG7553R1049	BND9KF9	232,466	0.24
CNHP24661 USD CALL/CNH PUT MAY24 7.57 CALL	AEIG83993			109,090,159	0.13
Lookout, Inc. Series F				141,612	0.11
CNHP01650 USD CALL/CNH PUT AUG24 7.79 CALL	AEIH11356			114,161,744	0.10
MODERNA INC	60770K107	US60770K1079	BGSXTS3	3,644	0.09
USD/CNH JP Morgan Chase Bank NA	AEIG35035			83,529,989	0.09
Net Other Assets	XXXX2	XXXX2	XXXX2	-3,066,898	-0.70

Please consider the investment objective, risks, charges and expenses of the fund carefully before investing. The prospectus contains this and other information about the fund. To obtain a prospectus, download one at morganstanley.com/im or call 1-800-548-7786. Please read the prospectus carefully before investing.

Morgan Stanley Investment Management (MSIM) is the asset management division of Morgan Stanley.

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