

Investment Advisor (“IA”) Information (This portion to be completed by IA.)

IA Firm Name (please print): _____

IA Master Account Number: _____ Service Team: _____

Advisor Contact Information (if follow-up is required): _____

Is your firm (or a principal, employee or related person* of your firm) an owner, trustee, executor, guardian, conservator or custodian of this account?

Yes No

If “yes,” is it intended that this account will hold assets belonging to persons or entities other than your firm, your firm’s employees or yourself, or relatives of you or your firm’s members? Yes No

*A “related person” is defined as any advisory affiliate or any person that is under common control with your firm. See Form ADV for additional information.

• **This form can be used only for the account registrations listed in Section 2.**

• If you are submitting a handwritten form, please print in ALL CAPITAL LETTERS.

Select all that apply:

- Add an additional account holder to a Schwab One account (select one) with margin without margin. Complete Sections 1, 2, 3, 7, 9, 10 and 11.
 - Does your account currently have a Power of Attorney? Yes No
(If “yes,” each additional account holder must complete the Power of Attorney form.)
 - Is your account approved for options trading? Yes No
(If “yes,” each additional account holder must complete the Option, Margin and Short Account Trading Application.)
 - Does your account have a designated beneficiary feature? Yes No
(If “yes,” each additional account holder must complete the Beneficiary Designation form.)
- Convert your Schwab brokerage account to a Schwab One account.† Complete Sections 1, 2, 3, 5, 6, 7, 9, 10 and 11.
- Convert your Schwab brokerage account to a Schwab One with Margin account. Complete Sections 1, 2, 3, 5, 6, 7, 9, 10 and 11.
- Close your Schwab Bank High Yield Investor Checking® account with Charles Schwab Bank (“Schwab Bank”).† Complete Sections 1, 4 and 11.
- Add checks, Schwab *BillPay*® and debit cards to your existing Schwab One account. Complete Sections 1, 7, 8 and 11.‡
- Submit a new signature card for Schwab One checks and/or Visa® debit card. Complete Sections 1, 2, 3, 7 and 11.

1. Schwab Account Number

(Note: Your account number and Tax ID number on the account will remain the same.)

Schwab Account Number		
□□□□-□□□□		
Account Holder Name (First)	(Middle)	(Last)
Additional Account Holder Name (First)	(Middle)	(Last)
Additional Account Holder Name (First)	(Middle)	(Last)

† If you are converting an existing brokerage account to a Schwab One account, you agree and acknowledge that: (a) the options, authorizations and designations you select in Sections 4–10 will supersede any designations previously made in your existing brokerage account, and (b) such account will be governed by the attached Update Your Schwab or Schwab One Account Agreement.

‡ Charles Schwab & Co., Inc. and Charles Schwab Bank are separate but affiliated companies and subsidiaries of The Charles Schwab Corporation. Brokerage products offered by Charles Schwab & Co., Inc., Member SIPC, are not insured by the FDIC, are not deposits or obligations of Charles Schwab Bank, and are subject to investment risk, including the possible loss of principal invested. Deposit and lending products and services are offered by Charles Schwab Bank, Member FDIC and an Equal Housing Lender.

§ This form cannot be used for trust accounts. Please use the Schwab One Trust Account Application for adding checks to trust account registrations.



2. Registration (Select only one.)

- Individual Tenants in Common Community Property*
 Joint Tenants with Rights of Survivorship Tenants by the Entirety* Community Property with Rights of Survivorship*

3. Account Holder Information

As required by federal law, Schwab will use the information provided below to verify your identity. (For information about Schwab's privacy policy, see the attached Update Your Schwab or Schwab One® Account Agreement.)

Name (First)		(Middle)	(Last)	
Are you known by another name? Specify:			Mother's Maiden Name	
Home/Legal Street Address (no P.O. boxes, please)		City	State	Zip Code
Mailing Address (if different from above; P.O. boxes may be used)		City	State	Zip Code
Social Security/Tax ID Number		Date of Birth (mm/dd/yyyy) ____/____/____		Email Address
Home Telephone Number ()		Business Telephone Number ()		Cellular Telephone Number ()
Country(ies) of Citizenship (Must list all; if not a U.S. citizen or if you are residing in a country outside the United States, please complete identification information below.) <input type="radio"/> USA <input type="radio"/> Other: _____ <input type="radio"/> Other: _____			Country of Legal Residence <input type="radio"/> USA <input type="radio"/> Other: _____	
Identification Type (Complete only if not a U.S. citizen or if you are residing in a country outside the United States.) <input type="radio"/> Passport <input type="radio"/> U.S. Driver's License <input type="radio"/> U.S. Gov't-Issued ID		Identification Number		
State or Country of Issuance		Issue Date	Expiration Date	
Employer Name/Industry (If self-employed, indicate nature of business.)		Occupation/Position	Employment Status <input type="radio"/> Employed <input type="radio"/> Retired <input type="radio"/> Self-Employed <input type="radio"/> Non-Employed	
Business Street Address (no P.O. boxes, please)		City	State	Zip Code
Are you affiliated with or employed by a stock exchange or member firm of an exchange or FINRA, or a municipal securities broker-dealer? <input type="radio"/> No <input type="radio"/> Yes (If "yes," you must attach a letter from your employer or affiliated broker-dealer approving the establishment of your account when submitting this application. List the company name _____.)				
Are you a director, 10% shareholder or policy-making officer of a publicly held company? <input type="radio"/> No <input type="radio"/> Yes (If "yes," enter company name _____ and trading symbol _____.)				

*This type of registration may not be available in your state.

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3. Account Holder Information (Continued)

Additional Account Holder Information

Name (First)		(Middle)	(Last)	
Are you known by another name? Specify:			Mother's Maiden Name	
Home/Legal Street Address (no P.O. boxes, please)		City	State	Zip Code
Mailing Address (if different from above; P.O. boxes may be used)		City	State	Zip Code
Social Security/Tax ID Number			Date of Birth (mm/dd/yyyy) ____/____/____	
Home Telephone Number ()		Business Telephone Number ()		Cellular Telephone Number ()
Country(ies) of Citizenship (Must list all; if not a U.S. citizen or if you are residing in a country outside the United States, please complete identification information below.) <input type="radio"/> USA <input type="radio"/> Other: _____ <input type="radio"/> Other: _____			Country of Legal Residence <input type="radio"/> USA <input type="radio"/> Other: _____	
Identification Type (Complete only if not a U.S. citizen or if you are residing in a country outside the United States.) <input type="radio"/> Passport <input type="radio"/> U.S. Driver's License <input type="radio"/> U.S. Gov't-Issued ID		Identification Number		
State or Country of Issuance		Issue Date	Expiration Date	
Employer Name/Industry (If self-employed, indicate nature of business.)		Occupation/Position	Employment Status <input type="radio"/> Employed <input type="radio"/> Retired <input type="radio"/> Self-Employed <input type="radio"/> Non-Employed	
Business Street Address (no P.O. boxes, please)		City	State	Zip Code
Are you affiliated with or employed by a stock exchange or member firm of an exchange or FINRA, or a municipal securities broker-dealer? <input type="radio"/> No <input type="radio"/> Yes (If "yes," you must attach a letter from your employer or affiliated broker-dealer approving the establishment of your account when submitting this application. List the company name _____.)				
Are you a director, 10% shareholder or policy-making officer of a publicly held company? <input type="radio"/> No <input type="radio"/> Yes (If "yes," enter company name _____ and trading symbol _____.)				

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4. Schwab Bank High Yield Investor Checking® Account Closure

By providing the High Yield Investor Checking account number below and signing this form, you authorize Schwab Bank to close your High Yield Investor Checking account. Your High Yield Investor Checking account will be closed within 30 days after it is de-linked from your Schwab One® account. Before closing your High Yield Investor Checking account, take these steps:

- Print out Schwab Bank Bill Pay information, such as payees and pending payments. Cancel any Bill Pay recurring payments. Cancel any Bill Pay eBills.
- If you use Microsoft® Money or Quicken®, do a final download of your transactions from www.schwaballiance.com.
- Cease writing and properly destroy any unused Schwab Bank checks.
- Cease using and properly destroy any Schwab Bank Visa® debit cards.
- As appropriate, notify any parties that directly deposit or electronically debit funds to use another account or payment method.

Schwab Bank will begin to close your High Yield Investor Checking account when we receive your completed and signed form. The following will occur:

- Unless instructed otherwise by you or your Investment Advisor, for 30 days after Schwab Bank has received this signed form, Schwab Bank checks will be accepted and paid, and Schwab Bank Bill Pay payments and eBills that had been previously scheduled will be processed.
- Online access to your High Yield Investor Checking account, Schwab Bank Bill Pay, check images and transaction downloads on www.schwaballiance.com will terminate immediately.
- Target Balance Transfer feature will terminate immediately.
- Any outstanding balance due on an Overdraft Credit Line will be billed separately.
- A final disbursement check will be sent after the 30-day close period.

Schwab High Yield Investor Checking Account Number		
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
Account Holder Name (First)	(Middle)	(Last)
Additional Account Holder Name (First)	(Middle)	(Last)

5. Electronic Delivery (eDelivery) Enrollment

Schwab offers electronic delivery of your account statements and trade confirmations. Once enrolled, you will receive notifications via email that your statements and confirmations are available via Schwab's secure website, www.schwaballiance.com. Enrolling in eDelivery may also qualify you for lower online equity trades. Please consult with your Investment Advisor and/or the applicable *Charles Schwab Pricing Guide* for more pricing details.

To begin enrollment in eDelivery, provide your email address below and Schwab will send you an email providing instructions on how to complete your enrollment and electronically consent to eDelivery via www.schwaballiance.com.

Email Address

6. Your Consent to Enroll in Schwab's Cash Features Program

The Cash Features Program is the service that we provide that permits the uninvested cash or "free credit balance" in your brokerage account to earn income while you decide how those funds should be invested. The attached Cash Features Program General Terms and Conditions will inform you of the general terms and conditions of the products available through our Cash Features Program.

By signing this Application, you consent to having the free credit balances in your brokerage account included in the Cash Features Program. The current cash feature on your brokerage account will remain the same. You understand that if you or your Independent Investment Advisor would prefer a different cash feature, and your account is eligible for your preferred feature, you or your Independent Investment Advisor may change your cash feature selection by contacting Schwab after your account is opened.

You acknowledge receipt of the Cash Features Program General Terms and Conditions that is attached to this Application. You understand that the Cash Features Program and the individual products are governed by the Schwab One® Account Agreement and acknowledge that additional information is available within the Cash Features Disclosure Statement applicable to your account. You understand and agree that Schwab may upon 30 days' advance written notice (1) make changes to the terms and conditions of the Cash Features Program; (2) make changes to the terms and conditions of a product currently available through the Cash Features Program; or (3) move your free credit balances from one product to another product available under the Cash Features Program.

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7. Optional Checks and Visa® Debit Card

Note: Schwab One Visa privileges are not available for accounts linked to a Schwab Bank High Yield Investor Checking® account.

Select only one:

- Checks only
- Checks and one Visa debit card
- Checks and two Visa debit cards (second debit card may be issued only in the name of the additional account holder on joint accounts)

Checking. If you would like to order personal checks, indicate how the name(s) and address should read.

Account Holder	Additional Account Holder		
Address	City	State	Zip Code
Special Information (if any)			

Visa. If you would like to order a Schwab One Visa Platinum debit card, indicate the name(s) that should appear on the card.

Account Holder	Additional Account Holder
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8. Schwab BillPay® Enrollment

Schwab BillPay is not available for accounts linked to a Schwab Bank High Yield Investor Checking® account.

Email Address (for establishing web access)

Your initial password and the Schwab BillPay Terms and Conditions will be sent directly to your mailing address within two weeks of Schwab's acceptance and approval of this Application. The Schwab BillPay Terms and Conditions will govern all Schwab BillPay transactions, and the use of Schwab BillPay will confirm that you have received and reviewed and you agree to be bound by the Schwab BillPay Terms and Conditions, including (without limit) any amendments, until Schwab receives a written termination notice, as described in the Terms and Conditions.

9. Authorizations (Optional—please select all that apply.)

You may revoke these Authorizations at any time by providing written notice to Schwab.

- Trading and Disbursement Authorization.** By checking the circle and signing this Form, I authorize Schwab (1) to execute trades in my account at the direction of IA as provided under the Trading Authorization heading in the attached Schwab One Account Application Agreement; (2) to disburse assets for investment purposes or to me personally, as instructed by IA; (3) to remit checks, wire funds and make certain disbursements of funds held in the account as regulations permit (i) to banks, broker-dealers, investment companies or other financial institutions for credit to an account of identical registration, or (ii) to me at my address of record. This disbursement authorization does not apply to Schwab MoneyLink® distributions or direct, ongoing electronic payments of dividends, interest and money market income. I acknowledge and agree that Schwab cannot confirm the account registration at the receiving financial institution and will rely solely on the representations of my IA as to the identical registration of the receiving accounts.
- Trading Authorization.** By checking the circle and signing this Form, I authorize Schwab to execute trades in my account at the direction of IA as provided under the Trading Authorization heading in the attached Schwab One Account Application Agreement.
- Fee Payment Authorization.** By checking the circle and signing this Form, I authorize Schwab to pay investment advisory and related fees to IA from my account in the amount of IA's instructions.

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10. Issuer Communications and Related Actions

If you have granted your IA trading authority over your account, and your IA exercises investment discretion for you pursuant to an advisory contract, you can appoint your IA to be sent certain issuer and issuer-related communications (proxies, tender offers, proposed mergers, rights offerings, exchange offers and warrants, among other things) that may require a voting decision or other action regarding investments held in your account.

If you appoint your IA below, your IA will, regarding only those voting decisions or other action communications sent to your IA: (i) be requested to vote proxy ballots; (ii) be requested to provide instructions regarding corporate reorganizations and other corporate actions; and (iii) be sent certain prospectuses and annual reports and other communications. In these cases, you will be authorizing your IA to make all voting decisions and take all actions on your behalf. You will not be sent informational copies of these communications.

Even if you appoint your IA below, you may still be sent certain other issuer and issuer-related communications regarding investments held in your account. You agree that you will be responsible for providing Schwab any applicable instructions or directions on those items.

Please select only one:

- Yes.** I appoint my IA, and I will fulfill my responsibilities, as described above. I instruct Schwab not to disclose my name, address and securities positions to any issuer of securities held in my account.
- No.** I do not appoint my IA as described above. I wish to be sent all issuer and issuer-related communications, make all voting decisions and take all actions described above. I understand that any issuer of securities held in my account may request that Schwab disclose to it my name, address and securities positions in that issuer.

If you selected "No" above, please select one:

My IA **should** / **should not** be sent informational copies of any issuer or issuer-related communications.

If you do not select either "Yes" or "No" above, Schwab will deem you to have indicated "No," but informational copies of issuer and issuer-related communications may be sent to your IA.

11. Authorization to Update Account

By signing this Application, you acknowledge that you have received and read a copy of the attached Application Agreement, which contains a predispute arbitration clause. You acknowledge that your signature signifies and constitutes your agreement that this account and your relationship with Schwab will be governed by the Application Agreement and all incorporated agreements and disclosures, including, but not limited to, the Schwab One® Account Agreement and the applicable *Charles Schwab Pricing Guide*, each as amended from time to time (the "Agreement and Disclosures"). You understand there are fees associated with establishing, maintaining and engaging in transactions.

If you have selected the margin feature, you acknowledge that securities securing loans from Schwab may be lent to Schwab and lent by Schwab to others. You also acknowledge that if you trade "on margin," you are borrowing money from Schwab and that you understand the requirements and risks associated with margin borrowing as summarized in the Margin Disclosure Statement included with this Application.

For purposes of this Account Update Application and the attached Application Agreement, the terms "you," "your" and "Account Holder" refer to each person who signs this Account Application. The terms "we," "us," "our" and "Schwab" refer to Charles Schwab & Co., Inc.

I certify, under penalty of perjury, that (1) the number shown on this Application is the correct Taxpayer Identification Number; (2) I am not subject to backup withholding due to a failure to report interest and dividend income; (3) I am a U.S. person (a U.S. citizen or U.S. resident alien); and (4) I am exempt from Foreign Account Tax Compliance Act (FATCA) reporting. I understand that if I have been notified by the IRS that I am subject to backup withholding as a result of dividend or interest underreporting and I have not received a notice from the IRS advising me that backup withholding is terminated, I must cross out item 2 above.

The Internal Revenue Service does not require your consent to any provision of this document other than the certifications required to avoid backup withholding.

The Agreement with Schwab includes a predispute arbitration clause. I acknowledge receipt of the predispute arbitration clause contained in the Required Arbitration Disclosures and Arbitration Agreement sections, pages 1 and 2, of the Update Your Schwab or Schwab One Account Agreement.

All account holders must sign and date.

Signature: Account Holder/Trustee/Custodian/Executor	Print Name	Date
		(mm/dd/yyyy)
Signature: Additional Account Holder/Co-Trustee/Co-Executor	Print Name	Date
		(mm/dd/yyyy)
Signature: Additional Account Holder/Co-Trustee/Co-Executor	Print Name	Date
		(mm/dd/yyyy)

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These terms relate to your account and are part of the Account Agreement between each account holder and Schwab. Please retain for your files.

This Agreement is effective only upon Schwab's acceptance and approval of this application.

I hereby request that Charles Schwab & Co., Inc. ("Schwab") make a change to the account listed in Section 1 of this application. I agree to read and be bound by the terms of the Schwab Account Agreement booklet or the Schwab One Account Agreement booklet (which includes information on the Cash Account and, if applicable, the Schwab Sweep Funds, the Margin and Short Account, Disclosure of Credit Terms and Policies, the Schwab StockBuilder Plan® and other written agreements between me and Schwab that refer to my brokerage account). I agree that the relevant booklet, together with this application and any appendices or addenda, as currently in effect and as they may be amended from time to time, collectively constitute my Account Agreement. If, in the future, I add features to this Account governed by the foregoing agreements (e.g., a money fund or margin trading), I agree to be bound by their terms and conditions. If I do not receive or understand the Schwab Account Agreement booklet or the Schwab One Account Agreement booklet, I will notify Schwab.

In accordance with Section 7 of Brokerage Services in the Schwab One Account Agreement booklet, I agree that all debts and other obligations owed to Schwab by any party to the Account Agreement will be secured by a lien on all Securities and Other Property now or hereafter held, carried or maintained in any of my present or future brokerage accounts with Schwab, whether individually or jointly held with others, or in any brokerage account at Schwab in which I have an interest.

Required Arbitration Disclosures. Regulatory authorities require that any brokerage agreement containing a predispute arbitration agreement must disclose that this agreement contains a predispute arbitration clause. This Agreement contains a predispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:

- All parties to this Agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
- Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.
- The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.

- The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
- The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.
- The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this Agreement.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any predispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until:

1. the class certification is denied;
2. the class is decertified; or
3. the customer is excluded from the class by the court.

Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this Agreement except to the extent stated herein.

Arbitration Agreement. Any controversy or claim arising out of or relating to (i) this Agreement, any other agreement with Schwab, an instruction or authorization provided to Schwab or the breach of any such agreements, instructions, or authorizations; (ii) the Account, any other Schwab account or Services; (iii) transactions in the Account or any other Schwab account; (iv) or in any way arising from the relationship with Schwab, its parent, subsidiaries, affiliates, officers, directors, employees, agents or service providers ("Related Third Parties"), including any controversy over the arbitrability of a dispute, will be settled by arbitration.

This arbitration agreement will be binding upon and inure to the benefit of the parties hereto and their respective representatives, attorneys-in-fact, heirs, successors, assigns and any other persons having or claiming to have a legal or beneficial interest in the Account, including court-appointed trustees and receivers. This arbitration agreement will also inure to the benefit of third-party service providers that assist Schwab in providing Services ("Third-Party Service Providers") and such Third-Party Service Providers are deemed to be third-party beneficiaries of this arbitration agreement.

The parties agree that this arbitration agreement will apply even if the application to open the Account is denied and will survive the closure of your Account and/or the termination of services rendered under this Agreement.

Such arbitration will be conducted by, and according to the securities arbitration rules and regulations then in effect of, the Financial

Industry Regulatory Authority (FINRA) or any national securities exchange that provides a forum for the arbitration of disputes, provided that Schwab is a member of such national securities exchange at the time the arbitration is initiated. Any party may initiate arbitration by filing a written claim with FINRA or such eligible national securities exchange. If arbitration before FINRA or an eligible national securities exchange is unavailable or impossible for any reason, then such arbitration will be conducted by, and according to the rules and regulations then in effect of, the American Arbitration Association (AAA). If arbitration before the AAA is unavailable or impossible for any reason, the parties agree to have a court of competent jurisdiction appoint three (3) arbitrators to resolve any and all disputes or controversies between or among the parties. Each party shall bear its own initial arbitration costs, which are determined by the rules and regulations of the arbitration forum. In the event of financial hardship, the arbitration forum may waive certain costs in accordance with such rules. At the conclusion of the hearing, the arbitrators will decide how to assess the costs of the arbitration among the parties.

Any award the arbitrator makes shall be final and binding, and judgment on it may be entered in any court having jurisdiction. This arbitration agreement shall be enforced and interpreted exclusively in accordance with applicable federal laws of the United States, including the Federal Arbitration Act. Any costs, fees or taxes involved in enforcing the award shall be fully assessed against and paid by the party resisting enforcement of said award.

For FINRA arbitrations, FINRA will appoint a single public arbitrator in customer cases decided by one arbitrator. In customer cases decided by three arbitrators, investors have the option of choosing an arbitration panel with two public arbitrators and one non-public arbitrator (Majority-Public Panel Rule) or a panel of all public arbitrators (Optional All-Public Panel Rule). If the customer declines to elect a panel selection method in writing by the applicable deadline, the Majority-Public Panel Rule for selecting arbitrators will apply.

All notices from one party to the other involving arbitration shall be considered to have been fully given when so served, mailed by first-class, certified or registered mail, or otherwise given by other commercially accepted medium of written notification.

In addition to the above provisions, if a party to this Agreement is or becomes a non-U.S. resident at the time of any controversy subject to this arbitration agreement, such party acknowledges and agrees to the following additional provisions:

- (1) The rules of the organization administering the arbitration specifically provide for the formal designation of the place at which the arbitration is to be held.

- (2) Entering into this Agreement constitutes consent to submit to the personal jurisdiction of the courts of the state of California, U.S.A., to interpret or enforce any or all of these arbitration provisions. Judgment on any arbitration award may be entered in any court having jurisdiction, or application may be made to such court for judicial acceptance of the award and an order of enforcement, as the case may be.
- (3) The exclusive language to be used by the parties and the arbitrators in the arbitration proceedings shall be English. Any party wishing an interpreter shall make all arrangements directly with the interpreter and shall assume all costs of the service.
- (4) If a party is a foreign government or state, state-owned or state-operated enterprise or other instrumentality of a foreign government or state, such party waives all rights of sovereign immunity and neither the Federal Act of State doctrine nor the doctrine of sovereign immunity shall apply insofar as any enforcement in courts located in the U.S.A. is concerned.

Checks and Visa® Conditions. I agree that each Account Holder is authorized to write checks and/or engage in Visa transactions. I further request Bank of New York Mellon Investment Servicing Trust Company (BNY IST) to issue checks and Visa Platinum debit card(s) as indicated on this Account Agreement. I authorize Schwab to make inquiries for the purpose of verifying my creditworthiness and the creditworthiness of my spouse if I am married and live in a community-property state. Such inquiries may include verifying information I have given in my Account Agreement, contacting my employer and obtaining credit reports. I further authorize Schwab to disclose information to others about me and my Accounts when it is necessary for completing transactions; to comply with a government agency request or court order, such as the IRS or the SEC; to verify the existence and condition of my Account for a third party, such as a credit bureau or merchant; and as otherwise authorized by the Schwab One® Account Agreement. For Account Holders with more than one account at Schwab: This authorization further authorizes Schwab to direct transfers between your accounts at Schwab when no written authorization is requested.

Trading Authorization. If the Account already grants the Investment Advisor ("IA") named above (which I understand may be referred to as "Investment Manager" or "IM" in other documentation relating to my Account) trading authorization, the IA will have the authority to direct Schwab to execute trades in my Account. I authorize Schwab to accept instructions from IA regarding my Account, and to take all other actions necessary or incidental to the execution of such instructions, as IA shall direct. If my Account has a margin feature, Schwab is authorized to accept instructions from IA to trade on margin, to sell short, to borrow securities, to otherwise cause credit to be extended through the Account, and to secure the performance of obligations in the Account with any assets held in the Account (the "Account Assets"). If my Account is authorized for option trading, Schwab is authorized to accept instructions from IA to purchase and sell (write) index participation contracts and covered

and uncovered option contracts on securities and securities-related indexes, up to my approved level of options trading strategy. Schwab, and other people to whom Schwab has given instructions in order to implement the IA's instructions, may rely on IA's instructions without obtaining my approval, counter-signature or co-signature. IA's authority will include, without limitation, the authority to give instructions for transactions in securities and financial instruments, including the buying and selling of stocks, bonds, debentures, notes, subscription warrants, stock purchase warrants, covered and uncovered options (if I have authorized trading covered and uncovered options, and only up to my approved level of options trading strategy), mutual fund shares, evidences of indebtedness and any other securities, instruments or contracts relating to securities.

I authorize Schwab to take such actions as Schwab deems reasonably necessary to carry out instructions Schwab receives from me and/or IA. I further authorize Schwab, acting upon IA's instructions, to aggregate transaction orders for my Account with orders for one or more other accounts over which IA has trading authorization or to accept or deliver assets in transactions executed by other broker-dealers where IA has so aggregated orders. I agree that if any such aggregated order is executed in more than one transaction, my portion of such order may be deemed to have been executed at the weighted average of the prices at which all of such transactions were executed.

Fee Payment Authorization. If I have indicated on this Application that my IA will have fee payment authority over my Account, I authorize Schwab to pay investment advisory and related fees from my Account to my IA in the amount of my IA's instructions. I have authorized my IA in writing to receive fee payments directly from my Account. Schwab may rely on the instructions submitted by my IA, and will have no responsibility to confirm those instructions with me or verify the fees. Schwab may redeem money market fund shares in my Account to the extent necessary to pay these fees. My IA's fees debited from my Account will appear on Schwab's statements of my Account.

Disbursement Authorization. If I have indicated on this Application that my IA will have trading and disbursement authority over my Account, I authorize Schwab to disburse assets from my Account for investment purposes, and funds to me personally, as instructed by my IA. On my IA's instruction, Schwab is authorized to remit checks, wire funds, and make certain disbursements of funds held in my Account as regulations permit to: (1) banks, other broker-dealers, investment companies or financial institutions to or for credit to an account of identical registration; or (2) me at my address of record. This disbursement authorization does not apply to Schwab MoneyLink® distributions or direct, ongoing electronic payments of dividends, interest and money market income. I acknowledge and agree that Schwab cannot confirm the account registration at the receiving financial institution and will rely solely on the representations of my IA as to the identical registration of the receiving accounts.

Role of Charles Schwab & Co., Inc. I acknowledge and agree that: Schwab will merely carry out transactions as directed by me and/or IA as

the case may be; I (and not Schwab) am responsible for investigating and selecting IAs; except in the case of Schwab's affiliated IAs, Windhaven Investment Management, Inc. ("Windhaven®") and ThomasPartners, Inc. ("ThomasPartners®"), IAs are not affiliated with, or controlled or employed by, Schwab; and Schwab has no duty to supervise or monitor trading by me or by IA, including Windhaven and ThomasPartners, in my Account. Schwab will send me written confirmations of my trades executed through Schwab and monthly statements of all activity in my Account. If my IA and/or I direct Schwab to act as custodian of nonpublicly traded assets, I acknowledge and agree: (1) that nonpublicly traded assets generally lack a liquid market and that the value of such assets may be difficult to ascertain; (2) that any estimated value reflected on my account statement or other communication from Schwab is for informational purposes only and may be significantly different from the actual market value or the liquidation value of such assets; (3) that Schwab has no responsibility for, nor does Schwab guarantee the accuracy of, any such valuation of assets, even if the assets have been valued by a pricing service selected by Schwab; (4) that Schwab may require that I sign an addendum to my Account Agreement if Schwab agrees, in the exercise of its discretion, to accept custody of any nonpublicly traded assets in my Account. I authorize Schwab to obtain from IA, and IA to provide to Schwab, information regarding my Account as Schwab may reasonably request. If any of IA's employees is associated with a member of FINRA, NYSE or affiliate, Schwab is authorized to deliver information concerning my Account to such member upon request.

I acknowledge, understand and agree that (1) Schwab Advisor Network® member advisors ("Network member advisors") pay Schwab fees to be members; (2) Network member advisors, including IA, are independent and not employees or agents of Schwab; (3) Schwab prescreens Network member advisors and checks their experience and credentials against criteria Schwab sets; (4) neither an IA's membership in Schwab Advisor Network nor the affiliation of Windhaven or ThomasPartners with Schwab changes that (A) I am solely responsible for (i) the decision to hire IA, (ii) what authority to give IA and (iii) evaluating IA's services and performance; and (B) Schwab (i) does not supervise IA and (ii) takes no responsibility to monitor IA's performance or transactions in the Account; and (5) if you were referred to IA through the Schwab Advisor Network or referred to Windhaven or ThomasPartners, you have received, read and understood the Schwab Advisor Network Disclosure Document and the Windhaven Disclosure Brochure or the ThomasPartners Disclosure Brochure.

Products and Services Provided to IA. Schwab may provide IA, at no fee or at a discounted fee, with research, software and other technology, information and consulting services and other products and services that benefit IA. Schwab's provision of these products and services to IA may be based upon clients of IA placing a certain amount of assets in their brokerage accounts at Schwab (i.e., custodial assets at Schwab) within a certain period of time. IA may be influenced by this commitment in recommending or requiring that its clients

establish brokerage accounts at Schwab. These products and services may not necessarily benefit my Account.

Pricing. Schwab and IA may agree to pricing (including commissions and transaction, account and service fees) for my Account and IA's other clients' accounts at Schwab based upon the nature and scope of business that IA transacts with Schwab, including the current and future expected amount of IA's clients' assets custodied at Schwab, the types of securities managed by IA and/or expected frequency of IA's trading. Schwab may change this pricing if the nature and scope of business that IA transacts with Schwab changes or does not reach agreed-upon levels, in which case pricing for IA's clients' accounts, including my Account, may increase to an amount determined by Schwab not to exceed Schwab's standard pricing as published in the then-current applicable *Charles Schwab Pricing Guide*.

Schwab's Privacy Policy and Disclosure of Information. Schwab respects your privacy. Schwab will use the information you provide to open and service your Account, to communicate with you when necessary, to provide you with additional information about products and services, and to provide to your IA, and certain third parties as your IA directs Schwab, information as provided in this form. Pursuant to your Account Agreement, Schwab may disclose information about you and your Account to certain other third parties. Please call Schwab at 1-800-515-2157 for a copy of Schwab's privacy policy.

Accounts With Margin Features. I understand that when I buy securities on margin or enter into short sales or short options, or when my IA, if I have granted this authority to my IA, does so for my Account, I am borrowing money from Schwab for part of that transaction(s). All securities and other assets in my Schwab Account(s) are pledged as collateral to secure this loan. I acknowledge that margin transactions are riskier and involve the possibility of greater loss than transactions where I am not borrowing money. If the value of my securities and other assets falls, I acknowledge that I may be required to deposit more assets (a margin call) to secure this loan or that securities and other assets held in my Account may be sold to pay down or pay off my loan without prior notice and at a loss or at lower prices than under other circumstances. I agree to carefully consider my own financial condition, tolerance for risk and investment objectives, as well as market conditions, before I decide to use margin credit or grant this authority to my IA. By placing an order on margin, or by granting this authority to my IA, I acknowledge that I have considered all of these factors and have decided that margin financing is appropriate for me.

All securities and other assets now or hereafter held in this Account may be pledged, repledged or otherwise used as collateral, separately or together with securities of other customers, for the amount I owe Charles Schwab & Co., Inc., or for a larger amount.

Interest on debit balances will be charged and compounded in accordance with the Account Agreement and as permitted under the laws of the state of California.

Termination of Authorizations. The authorizations I have granted in this Account Agreement will remain effective until I or IA have revoked or terminated any of them by giving notice to Schwab, either by mail, telephone, facsimile, telegraph, messenger, electronic mail, voice mail or otherwise, provided, however, that Schwab reserves the right to require written notice or confirmation that such authorization has been terminated or revoked. I understand that I may revoke or terminate all authorizations or designations conferred herein at any time. Unless revoked or terminated by me, all authorizations and designations conferred herein to IA shall continue to apply to IA's successors or assigns. Such revocation will not affect my obligation resulting from transactions initiated prior to Schwab's receipt of such notice. I understand that if Schwab terminates its Investment Manager Service Agreement with IA, Schwab will not be obligated to honor any further instructions from IA; I will have exclusive control over, and responsibility for, my Account; and unless Schwab notifies me otherwise, my Account will become a Schwab retail brokerage account subject to all terms and conditions applicable thereto, including fees and commissions, investment products and other services available to Schwab retail customers. Schwab will notify me as soon as reasonably possible after any such termination.

Indemnification. I agree to indemnify and hold harmless Schwab, its affiliates and their directors, officers, employees and agents from and against all claims, actions, costs and liabilities, including attorneys' fees, arising out of or relating to: (1) their reliance on this Account Agreement, and (2) Schwab's execution of IA's instructions.

Verification. I authorize Schwab to inquire from any source, including a consumer reporting agency, as to my identity (as required by federal law), creditworthiness and ongoing eligibility for the Account (and that of my spouse, if I live in a community-property state) at Account opening, at any time throughout the life of the Account, and thereafter for debt collection or investigative purposes.

Suitability. From time to time, Schwab may make available investment research and information ("Schwab research"). I agree and

acknowledge that my IA and I are responsible for the transactions in my Account, including assessing the suitability of transactions for my Account, even if Schwab research was used in making the investment decisions for my Account.

Account Ownership. For Accounts held as Joint Tenants with Right of Survivorship, on the death of either party, the entire Account shall vest in and belong to the surviving joint tenant(s). For Accounts held as Tenants in Common, each party shall be deemed to own an equal interest in the Account unless otherwise specified, and on the death of either party, the decedent's interest shall vest in and be distributed to that party's estate. For Accounts held as Community Property, all rights shall be governed by applicable state law. For Custodial Accounts governed by the Uniform Transfers to Minors Act (UTMA) or the Uniform Gifts to Minors Act (UGMA), I agree that the Account is irrevocably vested in and belongs to the minor, to be used for the sole benefit of the minor, and delivered to the minor promptly upon attaining the age of majority (or other age specified for termination under applicable state law).

Account Handling Instructions. Schwab will automatically hold all securities purchased, as well as all sales proceeds, dividends and interest, unless you specify otherwise.

I consent to Schwab: (i) sending, by mail, electronic delivery and/or other means, duplicate copies of account trade confirmations, account statements and any other information relating to me and my Accounts to my IA and MM, if and in such manner as requested by my IA and MM; (ii) sending such information about me and my Accounts to third parties as my IA or MM shall direct Schwab; and (iii) disclosing information about me and my Accounts to other third parties as provided in Schwab's privacy policy, this Account Application and the Account Agreement.

Information About SIPC. To obtain information about Securities Investor Protection Corporation (SIPC), including an explanatory SIPC brochure, please contact SIPC at www.sipc.org or 1-202-371-8300.

Impartial Lottery for Securities Subject to Partial Call or Partial Redemption. If Schwab holds securities for you in street name, in Schwab's name, or in bearer form that are subject to partial call or partial redemption, then in the case of a partial call or partial redemption Schwab will use an impartial lottery system to select the securities to be called or redeemed from among accounts holding those securities. For a description of Schwab's lottery system, please visit www.schwab.com/PartialCalls. If you would like a printed description of Schwab's lottery system mailed to you, please contact Schwab Alliance at 1-800-515-2157.

Margin Disclosure Statement

- This is important information regarding margin borrowing, if you have requested the margin feature on your brokerage account. Please retain this document for your files.
- When using margin, please keep these important rules and conditions in mind.
- A complete list of terms and conditions pertaining to margin trading and short selling, including credit terms and policies, can be found in the Account Agreement. The Account Agreement will be provided to you after account opening or you can access it at any time on our website or by calling us. Please read this important document before opening a margin account.
- If you have any questions, please call 1-800-515-2157 or contact your Investment Advisor.

When considering a margin loan, you should determine how the use of margin fits your own investment philosophy. It is important that you fully understand the risks, rules, and requirements involved in trading securities on margin.

The following paragraphs highlight some of the critical aspects of margin trading:

Margin trading increases your level of market risk. Margin trading increases your buying power, allowing you to purchase a greater amount of securities with your investing dollar. Therefore, your exposure to market volatility increases—a declining market could result in even greater losses. *A decline in the value of your securities that you purchase on margin may require you to provide additional funds to Schwab in order to avoid the forced sale of those securities or other securities in your account.*

Your downside is not limited to the collateral value in your margin account. When you buy securities on margin, you are borrowing money from Schwab for part of your transactions. Securities and other assets in your Schwab account(s) are pledged as collateral to secure this loan. These margin transactions are riskier and involve the possibility of greater loss than transactions where you are not borrowing money. If the securities in your account decline in value, so does the value of the collateral supporting your loan. When the value of the collateral falls below the maintenance margin requirements, or Schwab's higher "house" requirements, Schwab can move to protect its position. In order to cover margin deficiencies, Schwab may issue you a margin call—a request for additional cash—or sell securities from your account. If a sale does not cover the deficiency, you will be responsible for any shortfall.

Schwab may initiate the sale of any securities in your account, without contacting you, to meet a margin call. Schwab will attempt to involve you in the case of margin deficiency; however, market conditions may require the firm to quickly sell any of your securities without your consent. Because the securities are collateral for the margin loan, Schwab has the right to decide which security to sell in order to protect its interests. Even if Schwab has contacted you and provided a specific date by which you can meet a margin call, the firm can still take necessary steps to protect its financial interests, including immediately selling the securities without prior notice to you.

Schwab's "house" initial and maintenance margin requirements may exceed those established by the Federal Reserve Board and/or the Financial Industry Regulatory Authority, Inc. Please call Schwab for current margin requirements.

Schwab may change its initial margin requirements at any time and without prior notice. We may also impose anytime and without prior notice more stringent requirements on positions that in our sole discretion involve higher levels of risk; for example, higher limits may apply for thinly traded, speculative or volatile securities, or concentrated positions of securities.

Schwab may increase its "house" maintenance margin requirements at any time and is not required to provide you with advance written notice.

Changes in Schwab's policy regarding "house" maintenance margin requirements often take effect immediately and may result in the issuance of a maintenance margin call. Your failure to satisfy the call may cause Schwab to liquidate or sell securities in your account.

Schwab retains absolute discretion to determine whether, when and in what amounts we will require additional collateral. For example, we may require additional collateral if an account contains only one security or a large concentration of one or more securities; or low-priced, thinly traded or volatile securities; or if some of your collateral is or becomes restricted or non-negotiable or non-marginable. We may also consider market conditions, your financial resources, or other factors deemed by us to be relevant given the circumstances at the time.

You are not entitled to an extension of time on a margin call. While an extension of time to meet margin requirements may be available to customers under certain conditions, a customer does not have a right to the extension.

Some accounts that carry a margin loan balance and hold dividend-paying securities may receive a "substitute income payment in lieu of a dividend" (PIL). This payment may be taxable as ordinary income. Taxable accounts that receive a PIL instead of a qualified dividend may also receive a supplemental credit from Schwab. This will be identified on customer statements as a "Schwab substitute income credit." However, when Schwab can identify that a dividend is nonqualified, we will not credit your account with this additional payment.

- This credit is NOT "payment in lieu," and is unrelated to any payment from either the security issuer or the borrower.
- It is a discretionary credit from Schwab which may be discontinued in the future with or without notice.*
- It may be subject to tax at your ordinary income tax rate. Please consult your tax advisor about your specific tax situation.
- Because individual tax situations differ, Schwab cannot precisely calculate the additional tax costs a client might incur. Therefore, we do not intend, nor should clients expect, for this payment to be an exact reimbursement of any excess tax cost.

*Please refer to the "Loan Consent" section of your Account Agreement which states that no compensation is due in connection with such loans and that Schwab "is not required to compensate you for any differential tax treatment between dividends and payments in lieu of dividends."

Cash Features Program General Terms and Conditions

For detailed information, please see the Account Agreement and the Cash Features Disclosure Statement applicable to your account.

How the Cash Features Program Works	<p>Our Cash Features Program allows you to earn a return on the uninvested cash balances in your account by automatically placing (“sweeping”) cash balances into a sweep vehicle until such balances are invested by you or otherwise needed to satisfy obligations arising in connection with your account or by paying interest on the eligible free credit balances in your eligible account.</p>
Available Cash Feature Products	<p>The available cash feature products for clients of independent investment advisors currently consist of (1) interest payments by Schwab on the eligible free credit balances in your eligible account (the “Schwab One[®] Interest” feature); (2) one or more affiliated money market mutual funds (the “Money Fund Sweep” feature); or (3) interest-bearing Deposit Accounts at our affiliated bank, Schwab Bank (the “Bank Sweep” feature).</p>
Eligibility	<p>Eligibility for these cash features is based on the registered ownership of the account (for example, individual accounts are eligible for some cash features that IRA and retirement accounts are not). Some cash features also require a minimum Household Balance as determined by the value of eligible assets in your accounts and the accounts of other members of your household. A description of how we determine the Household Balance is contained in the Charles Schwab Pricing Guide applicable to your account. For details on eligibility, please see the Cash Features Disclosure Statement applicable to your account.</p>
Rate of Return	<p>The rates of return for the different cash feature products vary over time. Current rates can be obtained by contacting your independent investment advisor or by calling Schwab Alliance at 1-800-515-2157. If you already have an account, you can visit our website at www.schwab.com/SA_cash.</p> <ul style="list-style-type: none"> ▪ The rate of return on the Schwab One Interest feature is set by us. We may seek to pay as low a rate as possible consistent with our views of competitive necessities. With certain exceptions, the rate will be tiered based upon account type and the overall household value of your account(s) with Schwab. ▪ Money market mutual funds in the Money Fund Sweep feature seek to achieve the highest rate of return (less fees and expenses) consistent with prudence and their investment objectives. ▪ The rate of return on the Bank Sweep feature is set by Schwab Bank, which may seek to pay as low a rate as possible consistent with its views of competitive necessities. With certain exceptions, the rate will be tiered based upon account type and the overall household value of your account(s) with Schwab and Schwab Bank. ▪ There is no guarantee that the yield on any particular cash feature will remain higher than others over any given period. The rate of return on any cash feature may be lower than that of similar investments offered outside of the Cash Features Program.

Please note: The automatic investment of your free credit balances, including the frequency and the amount of each sweep, is governed by the terms and conditions set forth in the Account Agreement applicable to your account. The material in this document is intended for informational purposes. If there is any conflict between the descriptions in this document and the terms of your Account Agreement, your Account Agreement will control.

Brokerage Products: Not FDIC-Insured ▪ No Bank Guarantee ▪ May Lose Value

Rate of Return (Continued)	<p>The Cash Features Program should not be viewed as a long-term investment option. If you desire to maintain cash balances for other than a short-term period and/or are seeking the highest yields currently available in the market, please contact your independent investment advisor to discuss investment options that may be available outside of the Cash Features Program to help maximize your return potential consistent with your investment objectives and risk tolerance.</p>
Duty to Monitor	<ul style="list-style-type: none"> ▪ You and your independent investment advisor must monitor and determine the best option for your cash. ▪ For purposes of FDIC insurance of deposits held under the Bank Sweep feature: You are responsible for monitoring the total amount of deposits that you hold with Schwab Bank, directly or through an intermediary, in order for you to determine the extent of deposit insurance coverage available to you on your deposits, including the Deposit Accounts. Schwab is not responsible for any insured or uninsured portion of the Deposit Accounts or any other deposits.
Benefits to Schwab	<p>We may charge fees and receive certain benefits under the different cash features. Because of these fees and benefits, we have a financial incentive to select the particular sweep vehicles included in our program.</p>
Differing Risks and Account Protection	<p>The different cash features are subject to different risks and account protection:</p> <ul style="list-style-type: none"> ▪ The Schwab One® Interest feature is not subject to market risk and value loss but is subject to the risk of Schwab's failure. In the unlikely event Schwab fails, cash is eligible for SIPC coverage up to a limit of \$250,000 (including principal and interest) per client in each insurable capacity (e.g., individual or joint). ▪ Money market mutual funds in the Money Fund Sweep feature invest in high-quality, short-term securities and seek to maintain a stable value but are subject to market risks and potential value loss. They are not bank accounts and are not subject to FDIC insurance protection. They are instead covered by SIPC, which protects against the custodial risk (and not a decline in market value) when a brokerage firm fails by replacing missing securities and cash up to a limit of \$500,000, of which \$250,000 may be cash. ▪ The Bank Sweep feature is not subject to market risk and value loss but is subject to the risk of Schwab Bank's failure. In the unlikely event Schwab Bank fails, deposits at Schwab Bank are eligible for FDIC insurance protection up to a limit of \$250,000 (including principal and interest) per depositor in each insurable capacity (e.g., individual or joint). This limit includes any other deposits you may have at Schwab Bank outside of this program. You are responsible for monitoring your bank balances in this program and the balances in any of your other bank accounts at Schwab Bank to determine if these, in total, exceed FDIC insurance limits. Monies held in the Bank Sweep feature are not covered by SIPC.
Changes and Amendments to the Cash Features Program	<ul style="list-style-type: none"> ▪ Schwab may change the terms of the Cash Features Program, including the products and investment options available or eligibility rules for cash feature products, upon 30 days' advance written notice. ▪ Schwab may move your balances to an eligible cash features product in the event you become ineligible for an existing cash feature upon 30 days' advance written notice.

Please note: The automatic investment of your free credit balances, including the frequency and the amount of each sweep, is governed by the terms and conditions set forth in the Account Agreement applicable to your account. The material in this document is intended for informational purposes. If there is any conflict between the descriptions in this document and the terms of your Account Agreement, your Account Agreement will control.

Brokerage Products: Not FDIC-Insured ▪ No Bank Guarantee ▪ May Lose Value