

Things to Know Before Using Your Account

The information in this box is only a summary. Please read the agreement for more complete information.

Using your brokerage retirement account involves risks, for which you assume full responsibility.

As the account owner, you are fully responsible for monitoring your account and for all investment decisions and instructions concerning your account.

Placing orders during times when markets are volatile can be risky, particularly when you are using electronic services to access information or to place orders through your brokerage retirement account.

Before you start using your account or any account feature, it's essential that you understand the terms, conditions, and policies that apply.

A joint owner or any one of multiple trustees can place any order in a joint account or trust account (including removing all of the assets) without the approval of the other owner(s) or trustee(s) and without any obligation on Fidelity's part to question the action.

There are certain situations in which it is essential that you get in touch with us.

You need to tell us immediately if any of the following occur:

- You notice anything incorrect or suspicious concerning your orders, account activity, or statements.
- Your financial circumstances or goals change.
- You become subject to laws or regulations concerning corporate insiders, the reporting of certain investments, or employment in the securities industry.

The terms of this agreement apply only to certain Fidelity retirement accounts.

This account agreement applies to Fidelity IRAs (including traditional, rollover, and SEP IRAs), Fidelity Roth IRAs, Fidelity SIMPLE-IRAs, and Fidelity Retirement Plan accounts [Profit Sharing, Money Purchase, and Self-Employed 401(k) plans].

Disputes between you and Fidelity are settled by arbitration.

As with most brokerage accounts, the parties agree to waive their rights to sue in court, and agree to abide by the findings of an arbitration panel established in accordance with an industry self-regulatory organization.

How to Contact Us

For matters concerning your account, including questions, changes, and notifications of errors, contact us:

By Phone

800-544-6666

Online

Fidelity.com

In Writing

Fidelity Investments
Client Services
P.O. Box 770001
Cincinnati, OH 45277-0045

Who's Who in This Agreement

In this document, "Fidelity," "us," and "we" include Fidelity Brokerage Services LLC ("FBS") and National Financial Services LLC ("NFS"), as the context may require. "You" and "account owner" refer to the owner indicated on the account application.

About This Agreement

Fidelity's Commitments to You

Under this agreement, Fidelity has certain rights and responsibilities. When we accept your account application, we are agreeing to serve as your broker and to maintain an account for you. We agree, subject to our acceptance of an authorized order, to buy, sell, or otherwise dispose of, or acquire, securities for you according to your instructions. We also agree to provide various services and features, as described on the following pages.

Your Commitments to Fidelity

Many of these commitments are spelled out more completely on the following pages, but, in general, when you sign the account application, you agree:

- to accept full responsibility for the content and accuracy of all authorized instructions placed on your account, and for all results and consequences of these instructions, including all investment decisions, trading orders, and all instructions placed by you or any other person you authorize
- to pay all fees, charges, and expenses incurred on your account, according to the fee schedule in effect at the time (a current schedule is provided with this agreement); for services we perform at your request that are not covered in our current fee schedule, you agree to pay the applicable fee
- to maintain enough assets in your account to satisfy all obligations as they become due, and to understand that we may take whatever steps we consider necessary to resolve unpaid debts or other obligations
- to use the account and its features according to this agreement and for your own personal purposes only
- if you use any of our electronic services, or provide us with your e-mail address, to have your personal financial information transmitted electronically, and to receive your initial notice of our privacy policy electronically
- to keep secure your account number and password (personal identification number, or PIN) and any devices, such as mobile phones or pagers, you use in connection with your account
- to let us monitor and/or record any phone conversations with you
- to let us verify the information you provide and obtain credit reports and other credit-related information about you at any time, such as payment and employment information, and to permit any third-party financial services provider to do likewise
- to resolve disputes concerning your relationship with us (other than class actions) through arbitration rather than in a court of law
- if applying for, or using, any optional features or services (including online or other electronic services), to understand and accept the terms associated with them
- to protect Fidelity against losses arising from your use of market data and other information provided by third parties
- to understand that, whenever you invest in, or exchange into, any mutual fund (including any fund serving as your core position), you are responsible for reading that fund's prospectus, including its description of the fund, the fund's fees and charges, and the operation of the fund
- to notify us in writing anytime there is a material change in your financial circumstances or investment objectives
- to be bound by the current and future terms of this agreement, from the time you first use your account or sign your application, whichever happens first

Account Features

Certain features and services are standard with your Fidelity retirement account. Others are optional, and may be added either when you open your account or later. Note that some features and fees vary depending on the nature of your relationship with Fidelity.

Industry regulations require that Fidelity Brokerage Services LLC (FBS) and its clearing firm, National Financial Services LLC (NFS), allocate between them certain functions regarding the administration of your account. The following is a summary of the allocation of those functions performed by FBS and NFS.

FBS is responsible for:

- Obtaining and verifying account information and documentation.
- Opening, approving and monitoring trading and other activity in your account.
- Acceptance of orders and other instructions from you regarding your account, and for promptly and accurately transmitting those orders and instructions to NFS.
- Determining the suitability of investment recommendations and advice, and that those persons placing instructions for your account are authorized to do so. NFS will not give you advice about your investments and will not evaluate the suitability of investments made by you, your investment representative or any other party.
- Operating and supervising your account and its own activities in compliance with applicable laws and regulations, including compliance with federal, industry and NFS margin rules pertaining to your margin account and for advising you of margin requirements.
- Maintaining the required books and records for the services it performs.
- Investigating and responding to any questions or complaints you have about your account(s), confirmations, your periodic statement or any other matter related to your account(s). FBS will notify NFS with respect to matters involving services performed by NFS.

NFS is responsible, at the direction of FBS, for:

- The clearance and settlement of securities transactions.
- The execution of securities transactions, in the event NFS accepts orders from FBS.
- Preparing and sending transaction confirmations and periodic statements of your account (unless FBS has undertaken to do so).
- Acting as custodian for funds and securities received by NFS on your behalf.
- Following the instructions of FBS with respect to transactions and the receipt and delivery of funds and securities for your account.
- Extending margin credit for purchasing or carrying securities on margin.
- Maintaining the required books and records for the services it performs.

Standard Features

Securities Trading

This account is a brokerage account that allows the trading and holding of many securities that are publicly traded in the United States, such as most securities in these categories:

- stocks, including common and preferred
- bonds, including corporate, municipal, and government
- convertible securities
- mutual funds, including Fidelity funds, non-Fidelity funds, and closed-end funds such as exchange-traded funds (ETFs)
- options, although retirement accounts are only eligible for writing covered calls, buying calls/puts, and buying long straddles/strangles/combinations with respect to index and equity options in all cases
- options spreads may be permitted in IRA accounts provided certain conditions are met; please contact your Fidelity Representative for more information

- certificates of deposit (CDs)
- unit investment trusts (UITs)

In addition, the account can be used to trade certain foreign securities (either directly or as depositary receipts) and certain precious metals.

Some investments that **cannot** be traded through your Fidelity retirement account are futures and commodities.

When you place a trade, you may have a choice of order types, including market orders, limit orders, stop orders, and stop-limit orders. To find out how these different types of orders work, and for other helpful information, go to [Fidelity.com/brokerage](https://www.fidelity.com/brokerage).

Core Account

Your Fidelity retirement account includes a core account that is used for settling transactions and holding balances awaiting investment. Amounts contributed or received will be invested in the core position.

If you do not affirmatively select a different core account position on your account application, newly established Fidelity IRAs (including traditional, rollover, and SEP IRAs), and newly established Fidelity Roth IRAs and Fidelity SIMPLE-IRAs, will be established with an FDIC-Insured Deposit Sweep (the "Sweep") as the default option for the core account position. However, during the account opening process, you can affirmatively elect to change this default option to a Fidelity money market mutual fund (generally the Fidelity Cash Reserves money market fund or any other investment vehicle Fidelity might make available for this purpose). Note that inherited IRAs and any IRAs, Roth IRAs, or SIMPLE-IRAs that utilize Fidelity's Portfolio Advisory Services will not have the ability to use the Sweep. For more information about the Sweep, please refer to the FDIC-Insured Deposit Sweep Program Disclosures document, which is attached hereto, incorporated herein, and forms a part of this Agreement.

Once the Fidelity IRA, Fidelity Roth IRA, or Fidelity SIMPLE-IRA is established, you can switch the core account position between the Sweep and the then available Fidelity money market mutual fund core option without restriction. Information about the rates of return on these different options can be found at www.fidelity.com/ira.

Owners of existing Fidelity IRAs (including traditional, rollover, and SEP IRAs), Fidelity Roth IRAs and Fidelity SIMPLE-IRAs, other than inherited IRAs and those IRAs, Roth IRAs, or SIMPLE-IRAs that utilize Fidelity's Portfolio Advisory Services, may also switch the core account position between the Sweep and the then available Fidelity money market mutual fund option without restriction.

For Fidelity Retirement Plan accounts [including Profit Sharing, Money Purchase, and Self-Employed 401(k) plan accounts], the core account position is generally the Fidelity Cash Reserves money market fund, or any other investment vehicle Fidelity might make available for this purpose.

If you establish or maintain a Fidelity IRA (including traditional, rollover, and SEP IRAs), a Fidelity Roth IRA, or a Fidelity SIMPLE-IRA and you wish to transfer to or otherwise utilize Fidelity's Portfolio Advisory Services, as a condition of enrolling in Fidelity's Portfolio Advisory Services, your core account position in the Portfolio Advisory Services account will be the then available Fidelity money market mutual fund (generally Fidelity Cash Reserves money market fund or any other investment vehicle Fidelity might make available for this purpose). As a result, any balance in the Sweep will be liquidated prior to such a transfer or utilization.

If you maintain a Fidelity IRA (including traditional, rollover, and SEP IRAs), a Fidelity Roth IRA, or a Fidelity SIMPLE-IRA and you wish to establish a relationship with an independent third-party investment adviser that utilizes Fidelity or its affiliates for clearing and custody services and technology support, your core option will be the then available money market mutual fund. As a result, any balance in the Sweep must be liquidated in connection with the establishment of such relationship.

The Sweep is not available in inherited IRAs (including inherited Roth IRAs). Therefore, in connection with the establishment of an inherited IRA, prior to transferring the assets to the inherited IRA, any balance maintained by the deceased IRA depositor in the Sweep will be liquidated.

If your Fidelity IRA, Fidelity Roth IRA, or Fidelity SIMPLE-IRA was established by your employer in accordance with the terms of your workplace savings plan and your employer elected as the core option the then available Fidelity money market mutual fund (generally Fidelity Cash Reserves money market fund or any other investment vehicle Fidelity might make

available for this purpose), at the time that you activate your employer-established IRA, you will not be able to select the Sweep. Your only core option at that time will be the then available Fidelity money market mutual fund (generally Fidelity Cash Reserves money market fund or any other investment vehicle Fidelity might make available for this purpose). However, after you activate your IRA, you may switch the core account position between the Sweep and the then available Fidelity money market mutual fund option without restriction.

Similarly, your core option will be the then available money market mutual fund if you establish a relationship with an independent third-party investment adviser who utilizes Fidelity and its affiliates for clearing and custody services and technology support.

Prior to transferring assets to an inherited IRA following the death of the original IRA depositor, any balance in the Sweep will be liquidated because the Sweep is not available in inherited IRAs.

Statements

We will send an account statement to the address of record:

- every calendar quarter, at a minimum
- for any month when you have trading or cash management activity

Your account statements will show all activity in your account for the stated period, including securities transactions, cash balances, credits and debits to your core account, and all fees paid directly from your account.

We will also send a confirmation for every securities transaction in your account. The only exceptions are automatic investments, automatic withdrawals, dividend reinvestments, and transactions that involve only your core account; for these activities, your regular account statement serves in place of a confirmation.

To receive your account statements and confirmations faster, you can arrange to have them delivered electronically instead of through the mail. This option is free, and you can switch to or from it at any time upon request.

Account Protection

The securities in your account are protected in accordance with the Securities Investor Protection Corporation (SIPC) for up to \$500,000 (including up to \$100,000 for uninvested cash). We also provide additional coverage above these limits. Neither coverage protects against a decline in the value of your securities, nor does either coverage extend to certain securities that are considered ineligible for coverage.

For more details on the SIPC, or to request an SIPC brochure, visit www.sipc.org or call 202-371-8300.

Please note that if you utilize the Sweep, any balance you maintain in your core account is swept to an FDIC-insured position at a bank with which Fidelity has established a relationship (a "Program Bank"). Funds are swept to the Program Bank on the business day following the date that funds are credited to your account. Until funds are swept to the Program Bank, they are covered by SIPC. Once funds are swept to a Program Bank, they are no longer covered by SIPC, but they are eligible for FDIC insurance subject to FDIC insurance coverage limits. For more information about the Sweep, please refer to the FDIC-Insured Deposit Sweep Program Disclosures document, which is attached hereto, incorporated herein, and forms a part of this Agreement.

Optional Features

You can set up these services using your account application. To add them to an existing account, contact Fidelity. Some of these features are covered by their own customer agreements, which are incorporated into this agreement by reference (are legally considered part of this agreement) and will be provided to you as applicable. Note that some services are not available for certain types of accounts.

Checkwriting

Checkwriting is available on certain retirement accounts. Note that cancelled checks are not returned to you, although check imaging may be available.

Electronic Funds Transfer

You may transfer cash in and out of your core account using electronic funds transfer (EFT), which works like an electronic check. You can also arrange for your brokerage account to receive periodic payments from other accounts, or transfers from other sources, such as Automatic Investments.

Dividend Reinvestment

In addition to reinvestment of mutual fund dividends, reinvestment of dividends from eligible equities and closed-end funds is an option for most retirement accounts. You can choose to have the service apply to all eligible securities in your account, or only to certain ones. You can request this feature by phone or in writing (for all securities or for individual ones) once you have established your account.

Accessing Your Account

There are a variety of ways you can place orders, access your account, get market and investment information, or contact Fidelity. Online choices include Fidelity.com, Fidelity Active Trader Pro[®] alerts and wireless trading services, and other interactive services for computers or hand-held devices. Some of these services are offered by Fidelity directly; others are offered by outside providers.

Telephone choices include Fidelity Automated Service Telephone (FAST[®]) as well as Fidelity's telephone representatives. Both services are generally available 24 hours a day, seven days a week. You can also speak with a Fidelity Representative in person, during business hours, at any of our Fidelity Investor Centers around the country.

Account Policies

Account Registration

Custodial Accounts

For accounts opened by a parent, guardian, or custodian for the benefit of a minor: By opening this type of account, you agree that all account assets will be used only for the minor's benefit. Note that the IRA Custodian or Plan Trustee may restrict the use of this type of account.

Account Usage

First Use of a Core Account

If you choose a money market fund for your core position, making your first investment into that fund is your acknowledgment that you have received and read a prospectus or profile prospectus for that fund. Note that your core positions must meet the investment minimums for that fund.

Retirement Account Funding for Canadian Residents

If you have provided Fidelity with an address and/or tax information that indicates that you are a resident of Canada, you warrant and represent to Fidelity that any cash or assets used to fund this account constitute proceeds from an existing IRA or retirement plan account previously established in the United States for your benefit.

Prohibited Uses and Actions

You are strictly prohibited from using your account in conjunction with any business as a broker-dealer, trader, agent, or adviser in any type of security, commodity, future, or contract, or in any business or organization connected with individuals performing these functions. You are also prohibited from publicizing or sharing with anyone any information you obtain through your account (such as securities quotes). In addition, be aware that we may freeze your account or suspend certain privileges, features, or services at any time without notice.

Limits on Mutual Fund Trades

Because excessive trading in mutual fund shares can be detrimental to a fund and its shareholders, we may block account owners or accounts that engage in excessive trading from making further transactions in fund shares. A block on trading fund shares may be temporary or permanent, and may apply only to certain mutual funds or all mutual funds, including Fidelity funds.

The decision to impose a block may originate with a mutual fund company or may be made by Fidelity at the brokerage account level, if Fidelity believes such a block is warranted. To see what a given fund company's definition of "excessive trading" is, check the fund's prospectus.

In addition, we may restrict or limit any transaction in any mutual fund or other investment company that we or an affiliate manages or advises if we believe the transaction could adversely affect the investment company or its shareholders.

How Transactions Are Settled

Credits to Your Account

Any new deposits or proceeds from transactions are automatically swept daily into your core account.

Each check deposited is promptly credited to your core account. However, the money may not be available to use until up to four business days later, and we may decline to honor any debit that is applied against the money before the deposited check has cleared.

If a deposited check does not clear, the deposit will be removed from your account, and you are responsible for returning any interest you received on it. Note that we can only accept checks denominated in U.S. dollars and drawn on a U.S. bank account (including a U.S. branch of a foreign bank). We cannot accept third-party checks.

Debits to Your Account

All debit items (including checks, securities purchases, and electronic transfers of money) are paid daily to the extent that sufficient funds are available. Note that debits to resolve securities transactions or the payment of account fees will be given priority over other debits, such as checks.

As an account owner, you are responsible for satisfying all debits on your account, including any debit balance outstanding after all assets have been removed from an account, and any costs (such as legal fees) that we incur in collecting the debit.

To help ensure the proper discharge of debits, it is our policy to turn to the following sources, in this order, when settling debits against your account:

- any money that is added to your account (such as checks, interest, or transaction proceeds) on the same day the debit is applied
- any money in your core account
- any shares in a Fidelity money market fund held in this or another brokerage retirement account that has the same registration (which you authorize us to sell for this purpose when you sign the application)
- any other securities in this or another brokerage retirement account

Money market fund shares used to pay debits are redeemed at the share price in effect at the time (typically \$1.00). For disclosures concerning money market funds, see "Money Market Fund Investments" in the "Disclosures" section of this agreement.

Note that distributions from a Fidelity retirement plan account are subject to certain plan and IRS restrictions.

Resolving Unpaid Obligations or Other Obligations

If the sources listed above in "Debits to Your Account" (which are defined as your "available balance" for purposes of this agreement) are not enough to satisfy a given debit, we reserve the right to take action as we see fit, including declining to honor the debit, which may result in fees (such as a returned check fee) or other consequences for you.

Note that at any time, we may reduce your available balance to cover obligations that have occurred but not yet been debited including but not limited to withholding taxes that should have been deducted from your account.

It is important to understand that we do have additional choices for resolving unsatisfied obligations. Like many other securities brokers, we reserve the right to sell or otherwise use assets in an account to discharge any obligations the account owner(s) may have to us (including unmatured and contingent obligations), and to do so without further notice or demand. For example, if you have bought securities but not paid for them, we may sell them ourselves and use the proceeds to settle the purchase.

Although Fidelity may use other methods when it determines they may be more appropriate, Fidelity reserves the right to use the provisions described in this section at any time, except when they would conflict with the Employee Retirement Income Security Act of 1974 (ERISA) or the Internal Revenue Code of 1986, both as amended.

Transaction Settlement Deadlines

Generally, you need to pay for all transactions or deliver all securities by 2 p.m. Eastern time on the settlement date. We reserve the right to cancel or liquidate, at your risk, any transaction not settled in a timely way.

Non-Transferable Securities

In the event that any securities in your account become non-transferable, NFS may remove them from your account without prior notice. Non-transferable securities are those where transfer agent services have not been available for six or more years. A lack of transfer agent services may be due to a number of reasons, including that the issuer of such securities may no longer be in business and may even be insolvent. NFS may remove non-transferable securities from your account pursuant to a Securities and Exchange Commission approved program that permits our custodian for these securities to no longer maintain the physical certificates representing the positions in these securities. Please note the following:

- There are no known markets for these securities
- We are unable to deliver certificates to you representing these positions
- These transactions will not appear on Form 1099 or any other tax-reporting form
- If the position is held in a retirement account, we will not report the removal of the position as a taxable distribution and any reinstatement of the position will not be reported as a contribution
- If transfer agent services become available sometime in the future, NFS will use its best efforts to have the position reinstated in your account
- Positions removed from your account will appear on your next available account statement following such removal as an "Expired" transaction

By opening and maintaining an account with us, you consent to our actions as we have described them above, and you waive any claims against us arising out of such actions. You also understand that we do not provide tax advice concerning your account or any securities that may be the subject of removal from or reinstatement into your account, and you agree to consult with your own tax advisor concerning any tax implications that may arise as a result of any of these circumstances.

Policies on Optional Features

EFT Transactions

EFT transactions are normally completed within three to seven business days of your request. An EFT transfer may be for between \$10 and \$99,999. The two accounts involved in an EFT transaction must have at least one owner's name in common (and that name must match exactly). To send and receive EFT transactions, your bank must be a member of the Automated Clearing House (ACH) system.

For EFT transactions, you hereby grant us limited power of attorney for purposes of redeeming any shares in your accounts (with the right to make any necessary substitutions), and direct us to accept any orders to make payments to an authorized bank account and to fulfill these orders through the redemption of shares in your account. You agree that the above appointments and authorizations will continue until we receive written notice of any change at the address listed following "Things to Know Before Using Your Account," although we may cease to act as agents to the above appointments on 30 days' written notice to your account's address of record. You further understand that Fidelity may notify you electronically or by phone when the EFT feature is set up or EFT transactions are initiated on your account.

Dividend Reinvestment Program

With this feature, all dividends paid by eligible securities that you designate for reinvestment are automatically reinvested in additional shares of the same security. (For purposes of the Dividend Reinvestment Program, "dividends" means cash dividends and capital gain distributions, late ex-dividend payments, and special dividend payments, but not cash-in-lieu payments.) In designating any eligible security for reinvestment, you authorize us to purchase shares of that security for your account.

To be eligible for this feature, a security must satisfy all of the following:

- be a closed-end fund, common stock, or foreign security (generally American depository receipts [ADRs])
- be margin-eligible (as defined by NFS)
- be listed on the New York Stock Exchange or the American Stock Exchange (or one of their affiliated exchanges), or traded on the NASDAQ Stock Market
- be held in street name by NFS (or at a securities depository on its behalf)
- not be held as a short position

Dividends are reinvested on shares that satisfy all of the following:

- the security is eligible
- you own the shares on the dividend record date
- you own the shares on the dividend payable date (even if you sell them that day)
- your position in the security has been settled on or before the dividend record date
- the shares are designated for reinvestment as of 9 p.m. Eastern time on the dividend record date

Shares purchased through the Dividend Reinvestment Program will generally be placed in your account as of the dividend payable date. Note, however, that the stock price at which your reinvestment occurs is not necessarily the same as the price that is in effect on the dividend payable date. This is because we generally buy the shares of domestic companies three business days before the dividend payable date, at the market price(s) in effect at the time, in order to help ensure that we have shares on hand to place in your account on the dividend payable date. Other factors may require the purchase of the shares on a different business day, which may be before, on, or after the dividend payable date, e.g., dividends of foreign companies. Also, shares of securities which have an unusual ex-dividend date are purchased on the ex-dividend date and placed in your account on the first business day following the dividend payable date. Therefore, you may end up receiving more or fewer shares than if your dividend had been reinvested on the dividend payable date itself, particularly if there are

significant changes in the market price of a security just before its dividend payable date. If several purchase transactions are necessary to reinvest your and other customers' dividends in a particular security, the price per share will be the weighted average price per share for all shares purchased. If sufficient shares are unavailable in the market to satisfy all customers' requirements for dividend reinvestment for a security, the dividend will not be reinvested.

Automatic reinvestments often involve purchase of fractional shares, calculated to three decimal places. Partial shares pay prorated dividends and can be sold if you sell your entire share position, and will be liquidated automatically in transfers and certain other situations, but otherwise typically cannot be sold.

Although for dividend reinvestments your regular account statement takes the place of a trade confirmation, you can generally obtain status information the day after the reinvestment date by contacting Fidelity.

If you transfer or reregister your account within Fidelity (for example, by changing from a traditional IRA to a Roth IRA), you need to redesignate any securities whose dividends you want reinvested.

Wherever possible, we will buy reinvestment shares through a program offered by the Depository Trust Company (DTC), which offers a share price discount (generally up to 5%). To find out which securities are currently available through the DTC, contact Fidelity. Note that the availability through this program of any given security may change without notice. Also note that DTC program transactions take longer to process: Although the transactions are effective as of the dividend payable date, they are generally not posted to your account until 10 to 15 days later. If you sell your dividend-generating shares before the posting date, the dividend will not be reinvested.

Note that dividend reinvestment does not ensure a profit on your investments and does not protect against loss in declining markets.

Precious Metals

In general, precious metals and other collectibles within the meaning of Section 408(m) of the Internal Revenue Code may not generally be purchased in an IRA or other retirement account except as otherwise permitted under ERISA and the Internal Revenue Code, as applicable, and to the extent permitted by Fidelity. To the extent that collectibles, including precious metals, are held in an underlying trust or other investment vehicle such as an exchange traded fund, it is your responsibility to determine whether or not such an investment is appropriate for an IRA or retirement plan account and whether the acquisition of such investment may result in a taxable distribution from such account under Section 408(m).

Precious metals are not covered by SIPC account protection, but are insured by the depository at market value if stored through us. When trading precious metals, note that because they can experience sudden and rapid price changes, they are risky as investments, and we cannot guarantee you an advantageous price when you trade them.

Closing Your Account

We can close your account, or terminate any optional feature, at any time, for any reason, and without prior notice. You can close your account, or terminate any optional feature, by notifying us in writing or calling us on a recorded line. We may automatically close accounts with zero balances.

Regardless of how or when your account is closed, you will remain responsible for all charges, debit items, or other transactions you initiated or authorized, whether arising before or after termination. Note that a final disbursement of assets may be delayed until any remaining issues have been resolved.

Monitoring Your Account and Notifying Us of Errors

As an account owner, you are responsible for monitoring your account. This includes making sure that you are receiving transaction confirmations, account statements, and any other expected communications. It also includes reviewing these documents to see that information about your account is accurate and contains nothing suspicious.

Note that so long as we send communications to you at the physical or electronic address of record given on the application, or to any other address given to us by an authorized person, the communications are legally presumed to have been delivered, whether you actually received them or not. In addition, confirmations and statements are legally presumed to be accurate unless you specifically tell us otherwise.

If you have not received a communication you expected, or if you have a question or believe you have found an error in any communication from us, telephone us immediately, then follow up with written confirmation (see contact information following “Things to Know Before Using Your Account”).

You agree to notify us immediately if:

- you placed an order electronically but did not receive a reference number for it (an electronic order is not considered received until we have issued an acknowledgment)
- you received confirmation of an order you did not place, or any similar conflicting report

Trading in Volatile Markets — Understand the Risks

Volatile markets can present higher trading risks, especially when you are using electronic services to access information or place orders. Ways to manage some of these risks include:

- **Consider placing limit orders instead of market orders** In certain market conditions or with certain types of volatile securities, price changes may be significant and rapid during regular or after-hours trading. In these cases, placing a market order could result in a transaction that exceeds your available funds, meaning that Fidelity would have the right to sell other assets in your account. This is especially a risk in accounts that you cannot easily add money to, such as retirement accounts.
- **Be aware that quotes, order executions, and execution reports could be delayed** During periods of heavy trading or volatility, quotes that are provided as “real time” may be stale — even if they appear not to be — and you may not receive every quote update. Security prices can change dramatically during such delays.
- **When cancelling an order, be sure your original order is actually cancelled before entering a replacement order** Don’t rely on a receipt for your cancellation order; that order may have arrived too late for us to act on.
- **Use other ways to access Fidelity during peak volume times** Phone or computer capacity limitations could mean delays in getting information or placing orders. If you are having problems with one method, try another.

The chances of encountering these risks are higher for individuals using day-trading strategies. In part for this reason, Fidelity does not promote day-trading strategies.

For more information on trading risks and how to manage them, visit Fidelity.com or contact Fidelity.

- there is any other type of discrepancy or suspicious or unexplained occurrence relating to your account
- your personal identification number (PIN) or access device is lost or stolen, or you believe someone has been using it without authorization

If any of these conditions occurs and you fail to notify us immediately, neither we nor any other Fidelity affiliate will be liable for any consequences. If you do immediately notify us, our liability is limited as described in this agreement.

With any feature or service that is governed by a separate agreement (such as an options trading agreement), note that different policies concerning error resolution and liability may apply, as described in the separate agreement.

If, through any error, you have received property that is not rightfully yours, you agree to notify us and to immediately return the property and any earnings it may have yielded.

Complying with Applicable Laws and Regulations

In keeping with federal and state laws, and with securities industry regulations, you agree to notify us in writing if any of the following occur (with all terms in quotes defined as being within the meaning of the Securities Act of 1933):

- if you are, or later become, an “affiliate” or employee of a stock exchange, a member firm of an exchange or the Financial Industry Regulatory Authority (FINRA), a municipal securities dealer, or Fidelity or any Fidelity “affiliate”
- if you are, or later become, an “affiliate” or “control person” with respect to any security held in your account
- if any transactions in your account regarding securities whose resale, transfer, delivery, or negotiation must be reported under state or federal laws

You also agree to:

- ensure that your account transactions comply with all applicable laws and regulations, understanding that any transaction subject to special conditions may be delayed until those conditions are met
- comply with all policies and procedures concerning “restricted” and “control” securities that we may require
- comply with any insider trading policies that may apply to you as an employee or “affiliate” of the issuer of a security

We will assume that any securities or transactions in your account are not subject to the laws and regulations regarding “restricted” and “control” securities unless you specifically tell us otherwise.

Limits to Our Responsibility

Although we strive to ensure the quality and reliability of our services, including electronic services (such as online, wireless, and automated telephone services), neither we nor any third party whose services we arrange for are responsible for the availability, accuracy, timeliness, completeness, or security of any service related to your account.

You therefore agree that we are not responsible for any losses you incur (meaning claims, damages, actions, demands, investment losses, or other losses, as well as any costs, charges, attorneys’ fees, or other fees and expenses) as a result of any of the following:

- cancellation of an accepted trade in which Fidelity reasonably determines, in its sole discretion, that there was a data, clerical or other similar error in the handling or processing of the trade
- the acceptance and processing of any order placed on your account, whether received electronically or through other means, as long as the order reasonably appears to be authentic
- investment decisions or instructions placed on your account, or other such actions attributable to you or any authorized person

- occurrences related to governments or markets, such as restrictions, suspensions of trading, or high market volatility or trading volumes
- uncontrollable circumstances in the world at large, such as wars, earthquakes, power outages, or unusual weather conditions
- occurrences related to computers and communications, such as a network or systems failure, a message interception, or an instance of unauthorized access or breach of security
- with respect to electronically provided market data or other information provided by third parties, any flaw in the timing, transmission, receipt, or substance (such as any inaccuracy, error, delay, omission, or sequence error, any nonperformance, or any interruption of information), regardless of who or what has caused it to occur
- the storage and use of information about you and your account(s) by our systems and transmission of this information between you and us; these activities occur entirely at your risk
- the usage of information received by you or us through any electronic services
- telephone requests for redemptions, so long as we transmit the proceeds to you or the bank account number identified
- difficulties receiving information or accessing your account that are due to the equipment you use, including difficulties resulting from technical incompatibilities, malfunctions, inherent limitations, or interruptions in service
- any checks or other debits to your account that are not honored because the account has insufficient funds

If any service failure is determined to be our responsibility, we will be liable only for whatever benefit you would have realized up to the time by which you should have notified us, as specified earlier in "Monitoring Your Account and Notifying Us of Errors."

Indemnification

You agree to indemnify us from, and hold us harmless for, any losses (as defined in "Limits to Our Responsibility") resulting from your actions or failures to act, whether intentional or not, including losses resulting from actions taken by third parties.

If you use any third-party services or devices in connection with your account (such as Internet service or wireless devices), all service agreements and payments for these are your responsibility. Rates and terms are set by the service providers and are not Fidelity's responsibility.

Note that beyond taking reasonable steps to verify the authenticity of instructions, we have no obligation to inquire into the purpose, wisdom, or propriety of any instruction we receive.

Terms Concerning This Agreement

Applicability

This agreement is the only agreement between you and us concerning its subject matter, and covers all accounts that you, at whatever time, open, reopen, or have opened with us. In addition, if you have already entered into any agreements concerning services or features that relate to this account (such as the usage agreement for Fidelity.com), or if you do so in the future, this agreement incorporates by reference the terms, conditions, and policies of those agreements. In the case of any conflict between this agreement and an agreement for a particular service or feature, the service or feature agreement will prevail.

Governing Laws and Policies

This agreement and its enforcement are governed by the laws of the Commonwealth of Massachusetts, except with respect to its conflicts-of-law provisions.

All transactions through Fidelity are subject to the rules and customs of the marketplace where they are executed, as well as to applicable state and federal laws. In addition, the services below are subject to the following laws and policies:

- Securities trades: any Fidelity trading policies and limitations that are in effect at the time
- Online services: the license or usage terms posted online
- Checkwriting: the applicable provisions of the Uniform Commercial Code and the terms governing the service

Modification and Enforcement

We may amend or terminate this agreement at any time. This may include changing, dropping, or adding fees and policies; changing features and services or the entities that provide them (such as the bank that provides checkwriting); and limiting the usage or availability of any feature or service, within the limits of applicable laws and regulations. Although it is our policy to send notice to account owners of any material changes, we are not obligated to do so in most cases. Apart from changes originating in these ways, no provision of this agreement can be amended or waived except in writing by an authorized representative of Fidelity.

Fidelity may transfer its interests in this account or agreement to any of its successors and assigns, whether by merger, consolidation, or otherwise. You may not transfer your interests in your account or agreement (including de facto transferal by giving a nonowner access to the account using a PIN) except with the prior written approval of Fidelity, or through inheritance, divorce, or similar circumstance, as allowed by law, in which case any rights and obligations in existence at the time will accrue to, and be binding on, your heirs, executors, administrators, successors, or assigns.

We may enforce this agreement against any and all account owners. In addition, any securities exchanges or associations that provide information to you through your account may enforce the terms of this agreement directly against you. Although we may not always enforce certain provisions of this agreement, we retain our full right to do so at any time.

If any provision of this agreement is found to be in conflict with applicable laws, rules, or regulations, either present or future, that provision will be enforced to the maximum extent allowable, or made to conform, as the case may be. However, the remainder of this agreement will remain fully in effect.

Disclosures

Service Providers

Retirement brokerage services are provided by NFS, an affiliate of FBS. Bonds may be traded through NFS (which may choose to act as principal or agent) or through external dealers. Services available through this account are the property of Fidelity or the third parties from which Fidelity has obtained rights. Market data provided by national securities exchanges or associations remain the property of those entities.

Routing of Orders

FBS routes most customer orders to its affiliated broker-dealer, NFS, which in turn sends orders to various exchanges or market centers for execution. In deciding where to send an order, NFS looks at a number of factors, such as size of order, trading characteristics of the security, favorable execution prices (including the opportunity for price improvement), access to reliable market data, availability of efficient automated transaction processing, and execution cost. Some market centers may execute orders at prices superior to publicly quoted market prices. Although you can instruct us to send an order to a particular marketplace, our order-routing policies are designed to result in transaction processing that is favorable for you. NFS reserves the right to wait for the primary exchange to open before commencing trading in a particular security.

Certain Fees We Receive

Fidelity and its affiliates receive fees for providing certain products and services. Below is a partial list of affiliates, and the services they are paid for:

- Fidelity Management & Research Company—fee for serving as an investment adviser to the Fidelity funds.
- FBS and NFS—payments or other considerations (such as financial credits or reciprocal business) for directing equity trades to particular broker-dealers or market centers for execution. In addition to

sales loads and 12b-1 fees described in the prospectus, FBS or NFS receives other compensation in connection with the purchase of certain mutual fund shares and/or the ongoing maintenance of those positions in your brokerage account. This additional compensation may be paid by the mutual fund, its investment adviser, or one of its affiliates. Additional information about the source(s) and amount(s) of compensation, as well as other remuneration received by FBS or NFS, will be furnished to you upon written request.

Warranty Disclaimer

Neither we nor any third party makes any representations or warranties express or implied, including, without limitation, any implied warranties of merchantability or fitness for a particular purpose in respect of any services provided in connection with this account, or any information programs or products obtained from, through, or in connection with these services. In no event will we or any third party be liable for direct, indirect, incidental, or consequential damages resulting from any defect in or use of these services.

Money Market Fund Investments

An investment in a money market fund is neither insured nor guaranteed by the Federal Deposit Insurance Corporation or any other U.S. government agency. Although a money market fund seeks to preserve the value of your investment at \$1.00 per share, it is possible to lose money by investing in a money market fund.

Wisconsin Marital Property Act

Married Wisconsin residents should be aware that no provision of any marital property agreement, unilateral agreement, or court decree under Wisconsin's Marital Property Act will adversely affect a creditor's interest unless, prior to the time credit is granted, the creditor is furnished a copy of, or given complete information about, that agreement or decree.

Callable Securities Lottery

When street name or bearer securities held for you are subject to a partial call or partial redemption by the issuer, NFS may or may not receive an allocation of called/redeemed securities by the issuer, transfer agent, and/or depository. If NFS is allocated a portion of the called/redeemed securities, NFS utilizes an impartial lottery allocation system, in accordance with applicable rules, that randomly selects the securities within customer accounts that will be called/redeemed. NFS's allocations are not made on a pro rata basis and it is possible for you to receive a full or partial allocation, or no allocation. You have the right to withdraw uncalled fully paid securities at any time prior to the cutoff date and time established by the issuer, transfer agent, and/or depository with respect to the partial call, and also to withdraw excess margin securities, provided your account is not subject to restriction under the Federal Reserve's Regulation T or such withdrawal will not cause an undermargined condition. For more information and an example of the impartial lottery process, please go to: personal.fidelity.com/products/fixedincome/muniresets_overview.shtml.cvs.

Resolving Disputes — Arbitration

This agreement contains a predispute arbitration clause. Under this clause, which you agree to when you sign your account application, you and Fidelity agree as follows:

- A. 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.
- B. Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
- C. The ability of the parties to obtain documents, witness statements, and other discovery is generally more limited in arbitration than in court proceedings.
- D. The arbitrators do not have to explain the reason(s) for their award.
- E. The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
- F. 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.

- G. The rules of the arbitration forum in which the claim is filed, and any amendments thereto, shall be incorporated into this agreement.

All controversies that may arise between you and us concerning any subject matter, issue, or circumstance whatsoever (including, but not limited to, controversies concerning any account, order, or transaction, or the continuation, performance, interpretation, or breach of this or any other agreement between you and us, whether entered into or arising before, on, or after the date this account is opened) shall be determined by arbitration through the Financial Industry Regulatory Authority (FINRA) or any United States securities self-regulatory organization or United States securities exchange of which the person, entity, or entities against whom the claim is made is a member, as you may designate. If you commence arbitration through a United States self-regulatory organization or United States securities exchange and the rules of that organization or exchange fail to be applied for any reason, then you shall commence arbitration with any other United States securities self-regulatory organization or United States securities exchange of which the person, entity, or

entities against whom the claim is made is a member. If you do not notify us in writing of your designation within five (5) days after such failure or after you receive from us a written demand for arbitration, then you authorize us to make such designation on your behalf. The commencement of arbitration through a particular self-regulatory organization or securities exchange is not integral to the underlying agreement to arbitrate. You understand that judgment upon any arbitration award may be entered in any court of competent jurisdiction.

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 action who has not opted out of the class with respect to any claims encompassed by the putative class action until: (i) the class certification is denied; (ii) the class is decertified; or (iii) 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.



Fidelity Distributors Corporation
Fidelity Brokerage Services LLC, Member NYSE, SIPC