

!"#\$%&'()\*+,&+

!"\$./"0." 1(2%\$"!"3%4#. "45.'(#%'063. .07"89.:3.\* 8%#%"%"  
%#3"/(#4: ! %4"00";!"4"00" !"3:\* ( #(8<" =5.)"3./"48.> 5% &'55?  
5".%) :!\$:#4: 5%8(1(0."3 )\$: 5'%"")"0.: ('%3(#"(5.. 5%3"@"0.> !  
#"!/0." ABA\*C 3"4- 4 .45%\$D1%!(0."3 =7.'06E 3(4"\$ \$(!0)6\* F(\$7":\*  
(0.4(- (10((G#4: #(8<" %'F"0.: 1"!( 4 5%3%@DG '(456\$.#"\$: <.)8.E  
\$"8('4#!"006E 4'"")4#! H.".&(#[!(I 0(4#%"! . %#!(%'! #'(! 4  
2(8#".9.)063. . 2(8#".%4#(#./"48.3.\* 5'%"!.!%!%45(\$.#"#\$D063.  
4!%>4#!(3. H9!"#8. '%3(F8.\* 8(\$"0)?\$6J #'(! 1!"%2%:\*)?F.96 . )'-I-'.  
=#%3 .45%\$D1?"36" \$"8('4#!"006" #'(!6 0()% 3"0:#D A '(1 ! A, )0"- "%3"  
#%&%\* 4 9"\$DG 5%!6F"0.: 4%5'%"!.!\$:"3%4#. )"#48%&% %'&(0.13( 8  
"45.'(#%'063 .07"89.:3 ! =#%# 5".%) 9"\$"4%%2'(10% .45%\$D1%!(0."  
\$"8('4#!"006E '(4#"0.>\* %2\$()(G@.E .33?0%4#.3?\$.?'G@.3. 4!%>4#!(3.\*  
2%&(6E !.#(3.0(3.\* 3.8'%=\$"3"0#(3.-

%<0% 5'.3"0:#D 8(8 %#)"\$D06" \$"8('4#!"006" '(4#"0.: H5"".3?@ "4#!"00%  
7.%#()5#%&"06I\* #(8 . 42%'6 #'(!\* 5%)%2'(006" .0).!.)?(\$D0% )\$:  
8(<%&% 8%08"#0%&% "2"08(\* !.#(3.006" 7.%#/(-.

K.#%()5#%&"06\* 8 8%#%"63 %#0%4:#4: 8%"0D <"0DF"0:\*( ('(\$..  
3(0D/<?'48%>\* 1(3(0.E.\* \$"1".4(7\$%'"!.0%> H3('.\$.> 8%"0DI\* '%).%\$6  
'%1%!"%>\* 8%"0D . 8%"0"!.@( =\$\$?#"%'88(% 5\$%)6 \$.3%00.8( 8.#(>48%&%  
#)-\* %2\$()(G# ()5#%&"0063.\* .33?0%4#.3?\$.?'G@.3.\* %#0.1.'?G@.3.\*  
&.5%&\$."83./"48.3.\* &%0()%"%5063.\* (0#.4#"44%063. 4!%>4#!(3.\*  
4#.3?\$.?'G# )":#"\$D0%4#D 0()5%/"0.8%!\* '(2%#? 3%1&(\* ""&?\$.?'G#  
)"#"\$D0%4#D 9"0#(\$D0%> 0"!0%> 4.4#"36- 0. 3%&?# 5%!64.#D  
)!.&(#"\$D0?G (8#.!0%4#D\* ?'%"0D (#".(\$D0%&% )(!\$"0.: -

"8%#%"6" 7.%#()5#%&"06 %8(16!(G# #(8<" 5'%"!.!%!%45(\$.#"#\$D0%"\*  
(0#.%.84.)(0#0%"\* 5'%"!.!%3.8'%20%"\* 5'%"!.!%5?E%"!%" )">4#!."\*  
5%!6F(G# %4#%"#? 1"0.:\* ?\$?/F(G# 0%/0%" 1"0." H8.#(>48.> \$.3%00.8I\*  
'%4# !%\$%4 H=\$"?"%8%88I-

?F.9(- !\$:#4: %/"0D 5%5?\$\$:'063 \$"8('4#!"0063 '(4#"0."3-  
4#(0%!"0%"\* /%# 0(4#%> )?F.96 2\$(&%#!%0% !\$.:# 0( 0"!0?G 4.4#"3?\*  
%8(16!("# ?45%8(.!(G@"" )>4#!."\* ?4.\$.!("# (55"#.#" ?\$?/F("#  
5. @!"!("0."\* %2\$()("# (0#.2(8#".(\$D063\* 5%#%"&%0063 )">4#!."3\* ( #(8<"  
5'.3"0:#4: 5'. %4#'6E . E%'0./"48.E 2'%"0E.#(E-

.5%!0.8- (> .1 F.5%!0.8( %2\$()("# 2(8#".9.)063\* )"1.07.9.'?G@.3\*  
5%#%"&%0063 . 3%/"&%0063 4!%>4#!(3.- 4%2"00% =77"8#.!"0 %0 5'.  
5'%"4#?)06E 1(2%\$"!(0.:E- )0( 4#%\$%!( : \$%<8( .13"\$D/"006E 5\$%)%!  
F.5%!0.8( 1(\$.!(G# %)0.3 \$.#%'3 !%)6\* 0(4#(.!(G# 0"48%\$D8% /(4%!\* 1(#"3  
8.5:#:# AC 3.0?#\* 5'%"9" <.!.(G#-

K.#%09.) /"40%8( %8(1(\$4: 0(30%&% 4.\$D0"" 4(36E 4.\$D06E :)%!-  
?2"8?"\$106" 2(9.\$\$6 0" '(4#?# )(< ! '(1!)"00%3 4%8" /"40%8(- %%2@"  
7.#%09.)6 .45%\$D1?G# 5'. 30%&.E 1(2%\$"!(0.:EL ).1"0#"..\* &0%>06E '(0\*  
5'. !%45(\$"0.. %'&(0%!-

%%\$DF%" 10(/"0." ! 5.#(0.. /"\$%!"8( .3""# \$?8- ")('%3 '?448(: 5%&%!%'8(  
&\$(4.#L ?8 %# 4"3. 0")?& - =#% 0" 4\$?/(>0%-

?8 =77"8#.!"0 5'. 1(2%\$"!(0.. !'"E0.E )6E(#"\$D06E 5?#">\* ( #(8 <"\* 5'.  
1(2%\$"!(0.:E &%'\$(- % 4!%"3? 4%4#(!? \$?8 5%E%< 0( /"40%8\* ! 8%#%%'%3  
#(8< " 30%&% 7.#%09.)%!- K.#%09.)6 \$?8(\* /"40%8( %2\$()(G# \$"#?/"4#DG  
H)(\$D0%2%>0%4#DGI\* %0. )">4#!?G# . 0( 10(/.#"\$D0%3 '(44%#:0... 4\$.  
/"/"40%8 '(4#""#D ! 8(F.9? . 5%2\$.1%4#. 5%3"4#.#D <.)8%4#D 4 5%)!.<063.  
3.8%2(3.\* #% ?< ! 5!"?G 3.0?#? %0. #":G# 45%4%20%4#D )!.&(#D4: .  
5%&.2(G#-  
"#%)./"/"48." ""8%3"0)(9..L 5'.3"0:#D 8(8 \$"8('4#!"00%" 4")4#!%  
H.1!"4#0%" ! 0('%)" 4% !"3"0 M.55%8'(#(1 8%#%%'% " %/.@(" # 8'%!D\* ?2.!("#  
2%\$"10"#!%'06" 3.8%26\* 8(8 4")4#!% 5%#.! \* -  
1 '(4/#( A 1?2/.8 0( A 4#(8(0 !%)6- "40%8 '(13:#D 1(\$.#D %E\$(<)"00%>  
8.5:/"0%> !%)%> . 0(4#%:#D A /(4- %\$%48(#D &%'\$%\* 8%3? 0%"2E%).3  
1(8(5(#D ! 0%4- 45%\$D1%!(#D '(4#!%' ! #"/"0.. +;E /(4%! 5%4\$"5'.&%#%!"0.: - %<"!(! +; 3.0?#6 /"40%8 \$. \$?8 3%<"# 26#D 45%8%>06L  
4(36" %)0%2'(106" . 30%&%.4\$"006" 2(8#".\* <.!?@." 0" #%"D8% !  
5%\$%4#. '#(\* 0% . 5% 4%4")4#!? ! &\$%#8"\* ! 0%4? 2?)?# ?2.#6-

"8%#%'63 )"#:3 3%<0% 5")\$%<.#D 5%0GE(#D 0(#"#6> 0( 3"\$8%> #'8" \$?8  
. \$. /"40%8- '%)%"<.#"\$D0%4#D #(8%> 5%'9")?'6 ;C 3.0?#\* 5%'!%):# "" +  
'(1( ! )"0D-

"/"0." ('%3(#(3.

'%3(#6\* 8(8 0.8(8." )'?&." 4")4#!(\* !\$.:G# 0( 1)%'%'!D" . 0(4#%'%0."  
"2"08(- 5%3%@DG ('%3(#"(5"!#. /"48.E !%1)">4#!.> 3%<0% %2\$"&./#D  
5%'9"44 ()(5#(9.. ""2"08( 8 0%!%> 4")"\* ?3"0DF.#D %#".9(#"\$D0%" !\$.:0."  
4#"44%!\* 5")?5").#D '(1!.#." 0!"%1%!- '%!")"0."  
(%'3(#"(5.. 3%<"# 26#D .0)..)?(\$D063 H0%F"0." ('%3( 3")(\$D%0%!\*  
0(0"4"0." 3(4"\$ 0( %)"<)\* 0%4%!%> 5\$(#%8I\* . 8%\$\$"8#.!063 ! &?55(E\*  
8\$(44(E\* 5%3"@"0.:E )\$: %#)6E(\* 8(2.0"#(E 54.E%\$%&./"48%> '(1&'?18.-

%!64.#D .0#""4 8 %2?/"0.G\* ?\$?/F.#D 5(3:#D\* 4%4")%#%/.#D4: 5%3%&?#  
(%'3(#6 2(1.\$.8(\* '%13('.0(\* 3".\$446\* /(2"9(\* '%16-

\$: ?3"0DF"0.: ?4#(\$%4#. \* 40.<"0.: ?#%3\$:"3%4#. 3%<0% .45%\$D1%!(#D  
(%'3(#6 8%'.96\* 3:#6\* &!%1).8.\* 2"("&(3%#(\* 3(>%'(0(\* 4%406\* \$.3%0(\*  
3%<<"!"\$D0.8(\* 0(5%\$0:G@." F8%\$D06" 8\$(446 . 8%').%'6 !% !"3:

5"""3"0- "5%4")\$.!.6E )"#"> ?45%8%.# 1(5(E 3?48(#0%&% F(\$7":\* \$(!0)6\*  
4(0)(\$%!%&% )""!(-

'%3(#"(5.: 4./#"#4: 3:&8.3 . @():@.3 3"#%)%3- %\* #3 0" 3"0""\*  
.3""#4: 5'%#.!%5%8(1(0.: 8 "" 0(10(/"0.G- N#% 3%<"# 26#D .0).!.)?(\$D0(:  
0"5""0%4.3%4#D 1(5(E%!\* (\$\$"&.: 0( 9!"#?@." '(4#"0.:\* 2'%'0E.(\$D0(:  
(4#3(\* 1(2%\$"!(0." 4")9(-

%# 5%/"3? 0"%2E%).3% %2:1(#"\$D0%" 5%!"")0." #4#( .0).!.)?(\$D0%>  
/?!4#!.#"\$D0%4#. 8 ('%3(#?-  
""<" !4"&% 0()% !6:40.#D ? 5(9."0#(L  
0"# \$. ? 0"&% (\$\$"&.. 0( /#%;\$.2%  
0( 1(3)"/06 \$. 5'.10(8. 0"5""0%4.3%4#. 8(8.E;\$2% 1(5(E%!  
'%!"4#. %2%0:#"\$D0?G 5%2?  
'%!"4#. 8%<06> #4# /?!4#!.#"\$D0%4#. 8 ('%3(#(3  
'%!"#.D /?!4#!.#"\$D0%4#D 4\$.1.4#6E %2%\$/%"8 8 ('%3(#%!%1)">4#!.:3-  
\$: =#%&% %)0? 8(5\$G 5"5('(#( 4\$"? "# 0(0"4#. 0( 4\$.1.4#?G %2%\$/%8? .  
0(2\$G)(#D 1( 3"4#0%> . %2@"> "(89."> ! #"/"0." O; /(4%-  
(/.0(#D 5%\$D1%!(#D4: ('%3(;#"(5"!#./"48.3 4")4#!%3 <"\$(#"\$D0% 4  
4(3%> 3.0.3(\$D0%> )%1%>- ( 5"!6E 4"(04(E ('%3(#"(5..\* 8%&)( 4")4#!(  
5'0.8(G# /""1 8%<?\*4\$"? "# 5'.)"<.!(#D4: 0.<"4\$"?G@.E 0(/(\$D06E  
)%1-

'%3(#06" !(006

"/"206" !(006 4 #'((3. 5%\$"106 !4"3\* 0% %4%2"00% !%12?).363 )#:3-  
N#% !(006 4 8%0"3 !(\$".(06\* F(\$7":\* 5?4#6'0.8(\* 3:#%>\* 8'(5.!%>\*  
8%#%6" %8(16!(G# E%'%F"" ?45%8(.!(G@"" )>4#!.\* ?\$?/F("# 4%0- 4\$.  
"2"0%8 8 #3? < 48\$%0"0 8 %5""%4#:3 ! 42%' #'(! 3%<0% )%2(!.#D  
1!"%2%>\* '%3(F8?\* /""")?\* 8%'? )?2(- %# 4(36> 5%'4#%> .  
264#6> 45%4%2 5'.&%#%!"0.. %#!('%! .1 #'(!L 8(<%> #'(!6 0( %)0? !(00?  
2".#" 5% /(>0%> \$%<8" . 1(\$.!(># 4#(8(0%3 8.5:#8(\* )(># 0"30%&%  
5%4#%:#D\* 5'%9").#" . !\$>#" ! !(00?- " 4#(0"3 ?!"#D\* /#% !(006  
)>4#!?G# 3(&./"48.L .E =77"8# 5%!:#\$:"#4: 0" 4'(1?\* ( \$.FD 5'.  
"8?#\$:0%3 5'.3"0"0.. ! #"/"0." A\*C;+ 3"4:9"!- 4\$. !6 )\$:  
?45%8(.!(G@"> !(006 .12'(\$. =7.'0%" 3(4\$%\* ( =#% 3%<"# 26#D 3(4\$%  
\$(!0)6\* /(2"9(\* (5"\$D4.0(\* \$())00.8(\* 2(1.\$.8( . '%3(F8.\* #% 4%2\$G(>#"  
4\$"?G@." )%16L %# A )% C \$"# + 8(5\$. 0( 8(<)6" A, \$ !%)6

%# C )% A, \$"# ;C 8(5"\$D 0( !(00?-

PQ

'%#.!%5%8(1(0.:3. )\$: 0(10(/"0.: 7.#%()(5#%&"0%! ? )"#"> :!\$:G#4:L

;%4#'6" \$.E%'()%/06" "(89..J

;!6'(<"006" &.5").0(3./"48." 0('?F"0.:J

;0('?F"0." 40(J

;4?)%'%'<0%" 4%4#%:0.-

5#.3(\$D06" )">4#!.: 0( %'&(0.13 "2"08( .1 7.#%()(5#%&"0%! %8(16!(" #  
=\$"?#"%"8%88- "#48%> 5'(8#.8" #(8<" F.'%8% .45%\$D1?G#4: 8%"0D  
'%).%\$6 '%1%!%>\* 1(3(0.E.- ""5'(#6 <"0DF"0: )% A \$"# 0(10(/(#D 0"  
"8%3"0)?#4:-

?#%/0(: )%1( '(4#.#"\$D06E ()(5#%&"0%! 4%4#(!\$:"# + 8(5\$. 0( &%) <.10.  
"2"08(- 0( )"\$.#4: 0( + 5'.3( . )("4: 1( AC;+, 3.0 )% ")6 5""")  
1(!#'(8%3 . 5""") 5%\$)0.8%3- "") 40%3 7.#%()(5#%&"06 5'.3"0:#D 0"  
"8%3"0)?#4:- ?'4 4%4#(!\$:"# 0")"\$.- #"/"0." &%)( !%13%<0%  
5'%"0." 8?4%! 4 .0#""!(\$%3 3"<)? 0.3. 0" 3"0"" A 3"4-